U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-273 356

Ranked Input and Output Data Used to Determine Impact of New Source Performance Standards for Hydrocarbons, Carbon Monoxide, and Other Pollutants

Research Corp of New England, Wethersfield, Conn

Prepared for

Environmental Protection Agency, Research Triangle Park, N C Emission Standards and Engineering Div

Apr 77

PB 273 356

EPA-450/3-76-019-c
April 1977

RANKED INPUT AND OUTPUT DATA USED TO DETERMINE IMPACT OF NEW SOURCE PERFORMANCE STANDARDS FOR HYDROCARBONS, CARBON MONOXIDE, AND OTHER POLLUTANTS

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

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INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

613

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA 450/3-76 - 019c	2.
3. RECIPIENT'S ACCESSION NO. PB 273356	
4. TITLE AND SUBTITLE: Ranked Input and Output Data Used to Determine Impact of New Source Performance Standards for Hydrocarbons, Carbon Monoxide, and Other Pollutants	5. REPORT DATE: April 1977
	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S): Thomas G. Hopper, William A. Marrone	8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS: TRC - The Research Corporation of New England, 125 Silas Deane Highway, Wethersfield, Connecticut 06109	10. PROGRAM ELEMENT NO. 2AC129
	11. CONTRACT/GRANT NO. 68-02-1382
12. SPONSORING AGENCY NAME AND ADDRESS: EPA-Office of Air Quality Planning and Standards, Emission Standards and Engineering Division, Research Triangle Park, NC 27711	13. TYPE OF REPORT AND PERIOD COVERED: Task Final; 7/74 - 7/76
	14. SPONSORING AGENCY CODE: EPA - OAQPS 200/04

15. SUPPLEMENTARY NOTES
Project Officer for this Report is G. D. McCutchen, Mail Drop 13, Ext. 271

16. ABSTRACT

The purpose of this document is to present the results of a study to determine the impact of new source performance standards on nationwide emissions. The work presented covers 14 potential pollutants from approximately 200 source categories for the year 1985. The results are being used by EPA as input to the development of an overall standard setting strategy. The report contains information regarding controlled and uncontrolled emission factors, State emission limitations, industrial capacity, utilization, growth and retirement rates. The results of this study have been published as three volumes which encompass ten separate documents. This document contains Appendices H through P of Volume III.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS		c. COSATI Field/Group
Air Pollution	Priorities	Metal Industry	
Air Pollution Control	Chemical Industry	Agricultural Mineral	
Industrial Processes	Paper Industry	Flyash	
Combustion	Petroleum Industry	Exhaust Gases	
Regulations			
Economic Factors			

18. DISTRIBUTION STATEMENT: Unlimited	19. SECURITY CLASS (This Report): Unclassified	21. NO. OF PAGES: 613
	20. SECURITY CLASS (This page): Unclassified	22. PRICE: A99 - A01

EPA Form 2220-1 (9-73)

*U.S. GOVERNMENT PRINTING OFFICE: 1977 - 740-110/316

EPA-450/3-76-019-c

RANKED INPUT AND OUTPUT DATA USED TO DETERMINE IMPACT OF NEW SOURCE PERFORMANCE STANDARDS FOR HYDROCARBONS, CARBON MONOXIDE, AND OTHER POLLUTANTS

by

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Contract No. 68-02-1382

EPA Project Officer: Gary D. McCutchen

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

April 1977

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Publication No. EPA-450/3-76-019-c

FOREWORD

During 1974, two studies were initiated that ultimately resulted in the establishment of priorities for developing and promulgating New Source Performance Standards (NSPS). The procedures used to determine these priorities produced a great deal of information that is believed to be useful in the industries involved and, accordingly, is being published in this series of reports (EPA-450/3-76-017, EPA-450/3-76-018, EPA-450/3-76-019, and EPA-450/3-76-020). This information is organized as follows:

EPA-450/3-76-017 discusses (1) the mathematical model (Model IV) used to determine NSPS impacts over a 10-year period; (2) the methods used to attain input variables; and (3) the summary tables which are the heart of this study. Included in the summary tables are data related to (1) emission, growth, and replacement rates; (2) present and future production and capacity; (3) nationwide emissions; and (4) NSPS impact. These tables include information on 13 pollutants and nearly 200 stationary source categories.

EPA-450/3-3-76-018-a, -b, -c, -d, -e, and -f are the calculation sheets, showing how the input variables reported in EPA-450/3-76-017 were derived. All information sources, assumptions, and calculations are documented and explained. The appropriate worksheets are arranged alphabetically in the following volumes:

018-a - Stationary Combustion Sources

018-b - Chemical Processing Industries

018-c - Food and Agricultural Industries

018-d - Mineral Products Industries

018-e - Metallurgical Industries

018-f - Miscellaneous Sources (Evaporation Losses, Petroleum Industry, Wood Products Industry, and Assembly Plants

The 018-a -f series is of interest only to those concerned with the detailed calculations used to determine the Model IV input variables.

EPA-450/3-76-019-a provides additional results and information produced during the priority study. Its major purpose is to describe the computer program used to rank all the Model IV input and output variables by pollutant (these rankings are reported in 019-b and -c). In addition, it contains (1) summaries of the control systems considered "best" for each source, (2) equipment retirement ages, and (3) emission trends for each source category.

EPA-450/3-76-019-b and c present the computer-generated ranked data for each pollutant. Ranking is from highest to lowest for each of the 21 variables, e.g., A (nationwide capacity) and E_u (uncontrolled emission rate). Volume 019-b contains ranked data for particulate, nitrogen oxide (NO_x), and sulfur oxide (SO_x) sources. In Volume 019-c, the remaining pollutant sources are ranked: hydrocarbons, carbon monoxide (CO), fluorides, hazardous material, acid mist, lead, ammonia, sulfides, chlorine, and trace metals.

EPA-450/3-76-020, the final document in this series, takes the objective impact values from EPA-450/3-76-017, adds subjective judgements, and uses these combined criteria to produce a priority list for NSPS development. The report then calculates nationwide emission trends over the next 15 years for each criteria pollutant (particulate, SO_x, NO_x, hydrocarbons, and CO) based on a series of scenarios (e.g., no NSPS, 20 NSPS per year, etc.)

In summary, documents EPA-450/3-76-017 and 020 present the results of this study. Each stands alone, but they also complement each other, with 020 building on the results of 017. The remaining documents (018-a -f and 019-a -c) present additional and/or more detailed information derived from the impact and priority studies.

RANKED DATA FOR CO

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
PETRLM REFNRY FCCU											
EXIST.	0.85	58.AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
PETRLM REFNRY. FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
• MINERAL WOOL	392•	327•	231•	231•	392•	231•	161000•	1•000
GAS TURBINE ENGINES GAS PIPELINE	134•	54•9	43•9	43•9	134•	73•7	60600•	0•670
FORMALDEHYDE	507•	205•	113•	113•	507•	116•	390000•	0•990
• CHLOR-ALKALI - MERCURY CELL	0•53	0•28	0•15	0•15	0•53	0•15	370•	1•000
• SMOKED MEAT	1•0	0•87	0•52	0•52	1•0	0•52	490•	1•000
ETHYLENE DICHLORIDE	38•7	16•4	9•0	9•0	38•7	9•0	29700•	0•999
ASPHALT BLOWING	2•7	2•1	1•2	1•2	2•7	1•2	1400•	0•990
CARBON BLACK - FURNACE PROCESS	4407•	3442•	1893•	1893•	4407•	1896•	2510000•	0•999
FERRO ALLOY-SUBMERGED ARC FURNACE	111•	95•5	68•7	68•7	111•	69•2	41600•	0•990
FIBERGLASS MANUF - WOOL	1•2	0•79	0•30	0•30	1•2	1•1	50•0	0•063
ACRYLONITRILE	333•	134•	74•0	74•0	333•	74•1	259000•	1•000
CHARCOAL	165•	108•	59•5	59•5	165•	60•5	104000•	0•990
FIBERGLASS MANUF - TEXTILE	2•0	0•64	0•24	0•24	2•0	1•0	980•	0•557
PHTHALIC ANHYDRIDE O-XYLENE	97•9	45•8	36•6	36•6	97•9	36•6	61200•	0•999
• AUTOBODY INCINERATORS	1•3	0•33	0•20	0•20	1•3	0•20	1000•	1•000
MALEIC ANHYDRIDE BENZENE OXID•	365•	154•	84•8	84•8	365•	85•0	279000•	0•999
SEC ZINC - SWEAT	0•0014	0•	0•0	0•0	0•0014	0•0	0•79	1•000
SEC LEAD - BLAST FURN	14•3	10•4	7•9	7•9	14•3	8•3	5900•	0•938
PATHOLOGICAL INCINERATOR	0•12	0•091	0•055	0•055	0•12	0•056	60•0	0•990
SEC MAGNESIUM	0•00	0•000	0•000	0•000	0•00	0•000	0•21	1•000

B

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PETRLM REFNRY FCCU											
EXIST=	0.85	5B*A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW=	0.85		0.068								
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
AMMONIA - REGENERATOR & CS ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
SEC ZINC - SWEAT	0.0014	0.0	0.0	0.0	0.0014	0.0	0.79	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
SEC MAGNESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.21	1.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE ES	EN	UNCONT EU	GROWTH RATES DECIMAL/YR PB	PC	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
PETRLM REFNRY FCCU											
EXIST.	0.85	58+A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
HOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T M 1985	T -T S N 1985	1 - E /E N S
• BOILERS >250 MM BTU/HR	333•	195•	97.5	97.5	333•	97.5	235000•	1•000
• BOILERS .3-10 MM BTU/HR	257•	169•	106•	106•	257•	106•	150000•	1•000
• BOILERS <.3 MM BTU/HR	128•	95.8	76.7	76.7	128•	76.7	50800•	1•000
• BOILER 10-250 MM BTU/HR	395•	344•	172•	172•	395•	172•	223000•	1•000
PETRLM REFNRY FCCU	13232•	8769•	6050•	6050•	6086•	6086•	0•0	-0•000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850•	230•	184•	184•	850•	403•	446000•	0•671
• INDUSTRIAL COMMERCIAL INCINERATORS	158•	55.6	33.9	33.9	158•	33.9	123000•	1•000
IRON AND STEEL - BOF	8230•	5561•	4004•	4004•	8230•	4095•	4130000•	0•978
IRON AND STEEL - BLAST FURNACE	121•	93.5	67.3	67.3	121•	67.3	53200•	1•000
IRON AND STEEL - EAF	514•	297•	214•	214•	514•	289•	225000•	0•750
• INTERNAL COMBUSTION ENGS SPK IGN	667•	357•	285•	285•	667•	285•	381000•	1•000
• IRON AND STEEL - SINTERING	1778•	1378•	992•	992•	1778•	992•	785000•	1•000
• ORCHARD HEATERS	0•15	0•12	0•080	0•080	0•15	0•080	70•0	1•000
AMMONIA - REGENERATOR & CO ABSORBER	2181•	921•	507•	507•	2181•	515•	1660000•	0•995
• MUNICIPAL INCINERATORS	462•	317•	193•	193•	462•	193•	269000•	1•000
• BRICK & RELATED CLAY PRODUCTS	2•8	2•2	1•5	1•5	2•8	1•5	1300•	1•000
• CHLOR - ALKALI - DIAPHRAGM CELL	1•4	0•73	0•40	0•40	1•4	0•40	960•	1•000
• COKE OVENS - BY PRODUCT	65•7	59•7	43•0	43•0	65•7	43•0	22600•	1•000
GAS TURBINE ENGINES GAS PIPELINE	134•	54•9	43•9	43•9	134•	73•7	60600•	0•670
FORMALDEHYDE	507•	205•	113•	113•	507•	116•	390000•	0•990

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
SEC ZINC - SWEAT	0.0014	0.0	0.0	0.0	0.0014	0.0	0.79	1.000
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
SEC MAGNESIUM	0.00	0.000	0.000	0.000	0.00	0.000	0.21	1.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
PETRLM REFNRY FCCU											
EXIST.	0.85	SB=A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
SEC LEAD - BLAST FURN	14•3	10•4	7•9	7•9	14•3	8•3	5900•	0•938
GAS TURBINE ENGINES ELECTRIC UTILITIES	850•	230•	184•	184•	850•	403•	446000•	0•671
GAS TURBINE ENGINES GAS PIPELINE	134•	54•9	43•9	43•9	134•	73•7	60600•	0•670
WOOD PULPING KRAFT PROCESS	1310•	1163•	802•	802•	1310•	839•	471000•	0•929
CARBON BLACK - FURNACE PROCESS	4407•	3442•	1893•	1893•	4407•	1896•	2510000•	0•999
IRON AND STEEL - EAF	514•	297•	214•	214•	514•	289•	225000•	0•750
CHARCOAL	165•	108•	59•5	59•5	165•	60•5	104000•	0•990
IRON AND STEEL - BOF	8230•	5561•	4004•	4004•	8230•	4095•	4130000•	0•978
FIBERGLASS MANUF - WOOL	1•2	0•79	0•30	0•30	1•2	1•1	50•0	0•063
FIBERGLASS MANUF - TEXTILE	2•0	0•64	0•24	0•24	2•0	1•0	980•	0•557
FERRO ALLOY-SUBMERGED ARC FURNACE	111•	95•5	68•7	68•7	111•	69•2	41600•	0•990
FORMALDEHYDE	507•	205•	113•	113•	507•	116•	390000•	0•990
MALEIC ANHYDRIDE BENZENE OXID•	365•	154•	84•8	84•8	365•	85•0	279000•	0•999
AMMONIA - REGENERATOR & CO ABSORBER	2181•	921•	507•	507•	2181•	515•	1660000•	0•995
PHTHALIC ANHYDRIDE O-XYLENE	97•9	45•8	36•6	36•6	97•9	36•6	61200•	0•999
ACRYLONITRILE	333•	134•	74•0	74•0	333•	74•1	259000•	1•000
PETRLM REFNRY FCCU	13232•	8769•	6050•	6050•	6086•	6086•	0•0	-0•000
PATHOLOGICAL INCINERATOR	0•12	0•091	0•055	0•055	0•12	0•056	60•0	0•990
ETHYLENE DICHLORIDE	38•7	16•4	9•0	9•0	38•7	9•0	29700•	0•999
ASPHALT BLOWING	2•7	2•1	1•2	1•2	2•7	1•2	1400•	0•990

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
SEC MAGNESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.21	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
SEC ZINC - SWEAT	0.0014	0.0	0.0	0.0	0.0014	0.0	0.79	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	153.	55.6	33.9	33.9	158.	33.9	123000.	1.000

E_S (Existing)

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE FS	EMISSION RATES UNCONT EN	EMISSION RATES UNCONT EU	GROWTH RATES DECIMAL/YR PB	GROWTH RATES DECIMAL/YR PC	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
PETRLM REFNRY FCCU											
EXIST.	0.85	58.AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.3	19.8	16.8

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
* BOILER 10-250 MM BTU/HR	395.	.344.	172.	172.	395.	172.	223000.	1.000
SEC MAGNESIUM	0.	0.	0.	0.	0.	0.	0.21	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
SEC ZINC - SWEAT	0.0014	0.	0.0	0.0	0.0014	0.0	0.79	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000

$E_{S\ (New)}$

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PETRLM REFNRY	FCCU										
EXIST.	0.85	58.A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000

E_U

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.85	6.4
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.3
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
PETRLM REFNRY FCCU EXIST.	0.85	58.AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES UNCONT E U	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	/14.	8131.
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
SEC MAGNESIUM	0.	0.	0.	0.	0.	0.	0.21	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
SEC ZINC - SWEAT	0.0014	0.	0.0	0.0	0.0014	0.0	0.79	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000

$$\frac{1 - E_N/E_S}{}$$

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.002
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
PETRLM REFNRY FCCU											
EXIST.	0.85	56.AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	TU 1985	TA 1975	TE 1985	TUE 1985	TS 1985	TN 1985	T-TS N 1985	1 - E /E N !
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
SEC ZINC - SWEAT	0.0014	0.0	0.0	0.0	0.0014	0.0	0.79	1.000
SEC MAGNESIUM	0.0005	0.0	0.0	0.0	0.0005	0.0	0.21	1.000
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000

$\underline{P_B}$

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
INDUSTRIAL COMMERCIAL INCINERATORS	0.36	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PETRLM REFNRY FCCU EXIST=	0.85	58*AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW=	0.85		0.068								
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
SEC ZINC - SWEAT	0.0014	0.	0.	0.	0.0014	0.	0.79	1.000
SEC MAGNESIUM	0.0005	0.	0.	0.	0.0005	0.	0.21	1.000
• BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
• ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
• MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
• IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
• COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
• INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
• BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671

$P_{C\ (Compound)}$

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
PETRLM REFNRY FCCU											
EXIST=	0.85	58.A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW=	0.85		0.068								
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55'
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
SEC ZINC - SWEAT	0.0014	0.00	0.00	0.00	0.0014	0.0	0.79	1.000
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50300.	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
FERRO ALLOY-SUBMERGED ARC FURNACE								
	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
* BOILER 10-250 MM BTU/HR								
	395.	344.	172.	172.	395.	172.	223000.	1.000
WOOD PULPING KRAFT PROCESS								
	1310.	1163.	802.	802.	1310.	839.	471000.	0.929

$P_{C\ (Simple)}$

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
MUNICIPAL INCINERATORS	0.56	LB/TON	34.500	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
• AUTOBODY INCINERATORS	1•3	0•33	0•20	0•20	1•3	0•20	1000•	1•000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850•	230•	184•	184•	850•	403•	446000•	0•671
GAS TURBINE ENGINES GAS PIPELINE	134•	54•9	43•9	43•9	134•	73•7	60600•	0•670
• INTERNAL COMBUSTION ENGS SPK IGN	667•	357•	285•	285•	667•	285•	381000•	1•000
IRON AND STEEL - EAF	514•	297•	214•	214•	514•	289•	225000•	0•750
IRON AND STEEL - BOF	8230•	5561•	4004•	4004•	8230•	4095•	4130000•	0•978
• MUNICIPAL INCINERATORS	462•	317•	193•	193•	462•	193•	269000•	1•000
IRON AND STEEL - BLAST FURNACE	121•	93•5	67•3	67•3	121•	67•3	53200•	1•000
• IRON AND STEEL - SINTERING	1778•	1378•	992•	992•	1778•	992•	785000•	1•000
INTERNAL COMB ENGS DIESEL DUALFUEL	365•	285•	228•	228•	365•	228•	137000•	1•000
• ORCHARD HEATERS	0•15	0•12	0•080	0•080	0•15	0•080	70•0	1•000
• BRICK & RELATED CLAY PRODUCTS	2•8	2•2	1•5	1•5	2•8	1•5	1300•	1•000
ASPHALT BLOWING	2•7	2•1	1•2	1•2	2•7	1•2	1400•	0•990
• MINERAL WOOL	392•	327•	231•	231•	392•	231•	161000•	1•000
• SMOKED MEAT	1•0	0•87	0•52	0•52	1•0	0•52	490•	1•000
SEC MAGNESIUM	0•0	0•00	0•00	0•00	0•0	0•00	0•21	1•000
• COKE OVENS - BY PRODUCT	65•7	59•7	43•0	43•0	65•7	43•0	22600•	1•000

K

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
PETRLM REFNRY FCCU											
EXIST.	0.85	5B=A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
SEC MAGNESIUM	0.	0.	0.	0.	0.	0.	0.21	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
SEC ZINC - SWEAT	0.0014	0.	0.	0.	0.0014	0.	0.79	1.000
• SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
• BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
• INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
• BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
• MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
• INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
• BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
• BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
• BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671

$\underline{T_U}$

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P d	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PETRLM REFNRY FCCU											
EXIST.	0.85	58.AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.033S	0.280S	E6 PU	0.29	0.11	0.82
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS 1000 TONS/YEAR T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
SEC ZINC - SWEAT	0.0014	0.001	0.001	0.001	0.0014	0.001	0.79	1.000
SEC MAGNESIUM	0.0005	0.000	0.000	0.000	0.0005	0.000	0.21	1.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P d	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PETRLM REFNRY FCCU											
EXIST=	0.85	SB=AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW=	0.85		0.068								
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.02*S	0.032C	E6 TONS	0.15	0.036	0.055
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.0	0.68	0.55
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
BRCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
SEC ZINC - SWEAT	0.0014	0.001	0.001	0.001	0.0014	0.001	0.79	1.000
SEC MAGNESIUM	0.0005	0.000	0.000	0.000	0.0005	0.000	0.21	1.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P b	P c	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PETRLM REFNRY FCCU											
EXIST=	0.85	SB=A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW=	0.85		0.068								
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE ES	EN	UNCONT EU	GROWTH RATES DECIMAL/YR PB	PC	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	TU 1985	TA 1975	TE 1985	TUE 1985	TS 1985	TN 1985	TS - TN 1985	1 - EN/ES
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
PHTHALIC ANHYDRIDE O-XYLENE	97.5	45.8	36.6	36.6	97.9	36.6	61200.	0.999
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
SEC ZINC - SWEAT	0.0014	0.001	0.001	0.001	0.0014	0.001	0.79	1.000
SEC MAGNESIUM	0.0005	0.000	0.000	0.000	0.0005	0.000	0.21	1.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E M	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PETRLM REFNRY FCCU											
EXIST=	0.85	58=AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW=	0.85		0.068								
IRON AND STEEL - BOF											
	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
CARBON BLACK - FURNACE PROCESS											
	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
IRON AND STEEL - SINTERING											
	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
WOOD PULPING KRAFT PROCESS											
	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
AMMONIA - REGENERATOR & CO ABSORBER											
	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
INTERNAL COMBUSTION ENGS SPK IGN											
	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
MINERAL WOOL											
	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
INTERNAL COMB ENGS DIESEL DUALFUEL											
	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
IRON AND STEEL - EAF											
	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
MUNICIPAL INCINERATORS											
	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
GAS TURBINE ENGINES ELECTRIC UTILITIES											
	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
BOILER 10-250 MM BTU/HR											
	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
FORMALDEHYDE											
	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
BOILERS .3-10 MM BTU/HR											
	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS >250 MM BTU/HR											
	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
MALEIC ANHYDRIDE BENZENE OXID.											
	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
BOILERS <.3 MM BTU/HR											
	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
ACRYLONITRILE											
	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
FERRO ALLOY-SUBMERGED ARC FURNACE											
	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
IRON AND STEEL - BLAST FURNACE											
	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	50.0	19.8	16.8
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
SEC ZINC - SWEAT	0.0014	0.001	0.001	0.001	0.0014	0.001	0.79	1.000
SEC MAGNESIUM	0.0005	0.000	0.000	0.000	0.0005	0.000	0.21	1.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON AND STEEL - BOF											
	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
PETRLM REFNRY FCCU											
EXIST.	0.85	58=AI7 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								
CARBON BLACK - FURNACE PROCESS											
	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
AMMONIA - REGENERATOR & CO ABSORBER											
	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
IRON AND STEEL - SINTERING											
	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
WOOD PULPING KRAFT PROCESS											
	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
GAS TURBINE ENGINES ELECTRIC UTILITIES											
	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
INTERNAL COMBUSTION ENGS SPK IGN											
	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
IRON AND STEEL - EAF											
	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
FORMALDEHYDE											
	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
MUNICIPAL INCINERATORS											
	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BOILER 10-250 MM BTU/HR											
	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	291[illegible].
MINERAL WOOL											
	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
INTERNAL COMB ENGS DIESEL DUALFUEL											
	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MALEIC ANHYDRIDE BENZENE OXID.											
	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ACRYLONITRILE											
	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
BOILERS >250 MM BTU/HR											
	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR											
	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
CHARCOAL											
	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
INDUSTRIAL COMMERCIAL INCINERATORS											
	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
GAS TURBINE ENGINES GAS PIPELINE											
	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E N	E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.
* INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
SEC ZINC - SWEAT	0.0014	0.001	0.001	0.001	0.0014	0.001	0.79	1.000
SEC MAGNESIUM	0.0005	0.000	0.000	0.000	0.0005	0.000	0.21	1.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
PETRLM REFNRY FCCU											
EXIST.	0.85	58.A17 AS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW.	0.85		0.068								

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1955	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
• IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
• INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
• MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
• BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
• BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
• MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
• BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
• INDUSTRIAL COMMERCIAL INCINERATORS	158.	55.6	33.9	33.9	158.	33.9	123000.	1.000
CHARCOAL	165.	108.	59.5	59.5	165.	60.5	104000.	0.990
PHTHALIC ANHYDRIDE O-XYLENE	97.9	45.8	36.6	36.6	97.9	36.6	61200.	0.999

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670
IRON AND STEEL - BLAST FURNACE	121.	93.5	67.3	67.3	121.	67.3	53200.	1.000
* BOILERS <.3 MM BTU/HR	128.	95.8	76.7	76.7	128.	76.7	50800.	1.000
FERRO ALLOY-SUBMERGED ARC FURNACE	111.	95.5	68.7	68.7	111.	69.2	41600.	0.990
ETHYLENE DICHLORIDE	38.7	16.4	9.0	9.0	38.7	9.0	29700.	0.999
* COKE OVENS - BY PRODUCT	65.7	59.7	43.0	43.0	65.7	43.0	22600.	1.000
SEC LEAD - BLAST FURN	14.3	10.4	7.9	7.9	14.3	8.3	5900.	0.938
ASPHALT BLOWING	2.7	2.1	1.2	1.2	2.7	1.2	1400.	0.990
* BRICK & RELATED CLAY PRODUCTS	2.8	2.2	1.5	1.5	2.8	1.5	1300.	1.000
* AUTOBODY INCINERATORS	1.3	0.33	0.20	0.20	1.3	0.20	1000.	1.000
FIBERGLASS MANUF - TEXTILE	2.0	0.64	0.24	0.24	2.0	1.0	980.	0.557
* CHLOR - ALKALI - DIAPHRAGM CELL	1.4	0.73	0.40	0.40	1.4	0.40	960.	1.000
* SMOKED MEAT	1.0	0.87	0.52	0.52	1.0	0.52	490.	1.000
* CHLOR-ALKALI - MERCURY CELL	0.53	0.28	0.15	0.15	0.53	0.15	370.	1.000
* ORCHARD HEATERS	0.15	0.12	0.080	0.080	0.15	0.080	70.0	1.000
PATHOLOGICAL INCINERATOR	0.12	0.091	0.055	0.055	0.12	0.056	60.0	0.990
FIBERGLASS MANUF - WOOL	1.2	0.79	0.30	0.30	1.2	1.1	50.0	0.063
SEC ZINC - SWEAT	0.0014	0.00	0.00	0.00	0.0014	0.0	0.79	1.000
SEC MAGNESIUM	0.0005	0.00	0.00	0.00	0.0005	0.0	0.21	1.000
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000

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CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PETRLM REFNRY FCCU											
EXIST=	0.85	5B=A17 BS	13.700	0.068	13.700	0.031S	0.042C	E6 GAL	1506.	467.	766.
NEW=	0.85		0.068								
IRON AND STEEL - BOF	0.90	LB/TON	139.000	3.000	139.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	4500.000	4.500	4500.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
IRON AND STEEL - SINTERING	0.90	LB/TON	44.000	0.000	44.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	70.000	5.000	70.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	200.000	1.000	200.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	38.600	12.700	38.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
IRON AND STEEL - EAF	0.90	LB/TON	18.000	4.500	18.000	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	42.800	0.000	42.800	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
MINERAL WOOL	0.82	LB/TON	94.400	0.000	94.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	54.800	0.000	54.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MUNICIPAL INCINERATORS	0.56	LB/TON	34.800	0.000	34.800	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BOILER 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.110	0.000	0.110	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
FORMALDEHYDE	0.72	LB/TON	135.000	1.350	135.000	0.045S	0.095C	E6 TONS	4.2	1.9	6.2
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.051	0.000	0.051	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.024	0.000	0.024	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	1340.000	1.340	1340.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.026	0.000	0.026	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
ACRYLONITRILE	0.90	LB/TON	360.000	0.180	360.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	29.400	9.690	29.400	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FERRO ALLOY-SUBMERGED ARC FURNACE	0.90	LB/TON	136.000	1.400	136.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25

CARBON MONOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.750	0.000	1.750	0.028S	0.029S	E6 TONS	119.	33.2	34.4
CHARCOAL	0.85	LB/TON	320.000	3.200	320.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
COKE OVENS - BY PRODUCT	0.93	LB/TON	1.700	0.000	1.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PHTHALIC ANHYDRIDE O-XYLENE	0.78	LB/TON	280.000	0.200	280.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	8.970	0.000	8.970	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
ETHYLENE DICHLORIDE	0.62	LB/TON	16.000	0.016	16.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
SEC LEAD - BLAST FURN	0.68	LB/TON	207.000	12.900	207.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.155	0.000	0.155	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ASPHALT BLOWING	0.90	LB/TON	1.500	0.015	1.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
FIBERGLASS MANUF - WOOL	0.70	LB/TON	2.080	1.950	2.080	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	3.500	1.550	3.500	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
SMOKED MEAT	0.81	LB/TON	0.600	0.000	0.600	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
CHLOR - ALKALI - DIAPHRAGM CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	2.500	0.000	2.500	0.039S	0.280S	E6 PU	0.29	0.11	0.82
CHLOR-ALKALI - MERCURY CELL	0.95	LB/TON	0.158	0.000	0.158	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
ORCHARD HEATERS	1.00	LB/TON	0.004	0.000	0.004	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PATHOLOGICAL INCINERATOR	0.34	LB/TON	4.100	0.040	4.100	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC ZINC - SWEAT	0.82	LB/TON	0.012	0.000	0.012	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.058	0.000	0.058	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T -T S N 1985	1 - E /E N S
PETRLM REFNRY FCCU	13232.	8769.	6050.	6050.	6086.	6086.	0.0	-0.000
IRON AND STEEL - BOF	8230.	5561.	4004.	4004.	8230.	4095.	4130000.	0.978
CARBON BLACK - FURNACE PROCESS	4407.	3442.	1893.	1893.	4407.	1896.	2510000.	0.999
* IRON AND STEEL - SINTERING	1778.	1378.	992.	992.	1778.	992.	785000.	1.000
WOOD PULPING KRAFT PROCESS	1310.	1163.	802.	802.	1310.	839.	471000.	0.929
AMMONIA - REGENERATOR & CO ABSORBER	2181.	921.	507.	507.	2181.	515.	1660000.	0.995
GAS TURBINE ENGINES ELECTRIC UTILITIES	850.	230.	184.	184.	850.	403.	446000.	0.671
IRON AND STEEL - EAF	514.	297.	214.	214.	514.	289.	225000.	0.750
* INTERNAL COMBUSTION ENGS SPK IGN	667.	357.	285.	285.	667.	285.	381000.	1.000
* MINERAL WOOL	392.	327.	231.	231.	392.	231.	161000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	365.	285.	228.	228.	365.	228.	137000.	1.000
* MUNICIPAL INCINERATORS	462.	317.	193.	193.	462.	193.	269000.	1.000
* BOILER 10-250 MM BTU/HR	395.	344.	172.	172.	395.	172.	223000.	1.000
FORMALDEHYDE	507.	205.	113.	113.	507.	116.	390000.	0.990
* BOILERS .3-10 MM BTU/HR	257.	169.	106.	106.	257.	106.	150000.	1.000
* BOILERS >250 MM BTU/HR	333.	195.	97.5	97.5	333.	97.5	235000.	1.000
MALEIC ANHYDRIDE BENZENE BASED	365.	154.	84.8	84.8	365.	85.0	279000.	0.999
* BOILERS <.3 MM BTU/HR	126.	95.8	76.7	76.7	126.	76.7	50800.	1.000
ACRYLONITRILE	333.	134.	74.0	74.0	333.	74.1	259000.	1.000
GAS TURBINE ENGINES GAS PIPELINE	134.	54.9	43.9	43.9	134.	73.7	60600.	0.670

CARBON MONOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T -T S N 1985	1 - E /E N S
FERRO ALLOY-SUBMERGED ARC FURNACE	111•	95•5	68•7	68•7	111•	69•2	41600•	0•990
IRON AND STEEL - BLAST FURNACE	121•	93•5	67•3	67•3	121•	67•3	53200•	1•000
CHARCOAL	165•	108•	59•5	59•5	165•	60•5	104000•	0•990
• COKE OVENS - BY PRODUCT	65•7	59•7	43•0	43•0	65•7	43•0	22600•	1•000
PHTHALIC ANHYDRIDE O-XYLENE	97•9	45•8	36•6	36•6	97•9	36•6	61200•	0•999
• INDUSTRIAL COMMERCIAL INCINERATORS	158•	55•6	33•9	33•9	158•	33•9	123000•	1•000
ETHYLENE DICHLORIDE	38•7	16•4	9•0	9•0	38•7	9•0	29700•	0•999
SEC LEAD - BLAST FURN	14•3	10•4	7•9	7•9	14•3	8•3	5900•	0•938
• BRICK & RELATED CLAY PRODUCTS	2•8	2•2	1•5	1•5	2•8	1•5	1300•	1•000
ASPHALT BLOWING	2•7	2•1	1•2	1•2	2•7	1•2	1400•	0•990
FIBERGLASS MANUF - WOOL	1•2	0•79	0•30	0•30	1•2	1•1	50•0	0•063
FIBERGLASS MANUF - TEXTILE	2•0	0•64	0•24	0•24	2•0	1•0	980•	0•557
• SMOKED MEAT	1•0	0•87	0•52	0•52	1•0	0•52	490•	1•000
• CHLOR - ALKALI - DIAPHRAGM CELL	1•4	0•73	0•40	0•40	1•4	0•40	960•	1•000
• AUTOBODY INCINERATORS	1•3	0•33	0•20	0•20	1•3	0•20	1000•	1•000
• CHLOR-ALKALI - MERCURY CELL	0•53	0•28	0•15	0•15	0•53	0•15	370•	1•000
• ORCHARD HEATERS	0•15	0•12	0•080	0•080	0•15	0•080	70•0	1•000
PATHOLOGICAL INCINERATOR	0•12	0•091	0•055	0•055	0•12	0•056	60•0	0•990
SEC ZINC - SWEAT	0•0014	0•001	0•001	0•001	0•0014	0•001	0•79	1•000
SEC MAGNESIUM	0•0005	0•000	0•000	0•000	0•0005	0•000	0•21	1•000

RANKED DATA FOR FLUORIDES

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FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00091	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
IRON & STEEL - BOF												
EXIST.	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW.	0.90		0.00015									
IRON & STEEL - ELEC ARC												
EXIST.	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW.	0.90		0.01340									
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
SPRPHSPHRC ACD VAC E	0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
GLASS OPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.00

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCNT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRAYDRC ACID SUB CMB	G-71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.0005	0.0005	E6 TONS	0.16	0.000	0.00

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0	0.0	0.0028	0.00	2.3	0.820
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.001	3.3	1.000

B

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION UNITS	ALLOWABLE EMISSION RATES UNCONT E S	ALLOWABLE EMISSION RATES UNCONT E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BLR >250 E6 BTU/HR											
0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 0.3-10 E6 BTU/HR											
0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
BLR 10 - 250 E6 BTU/HR											
0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
IRON & STEEL - BOF											
EXIST= 0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90		0.00015									
BRICK & RELATED CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
IRON & STEEL - ELEC ARC											
EXIST= 0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW= 0.90		0.01340									
CERAMIC CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
PHOSPHRC ACID WET											
0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
PRIM ALUM SMLTRS											
0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
DIAMMON PHOS FERTLZR											
0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
FIBERGLAS WOOL PRCSD											
0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG											
0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
GRAN TPL SPRPHOS PRD											
0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS TEXT. PROC.											
0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
SPRPHSPHRC ACD VAC E											
0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
FRIT MFG											
0.60	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
HYDROFLUORIC ACID											
0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
GLASS OPAL											
0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
CASTABLE REFRACTRS											
0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
ANIMAL FEED DEFLUORO											
0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.00

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
SPRPHSRC ACD SUB CMB 0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.0005	0.0005	E6 TONS	0.16	0.000	0.00

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.00	0.00	0.0028	0.001	2.3	0.820
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.001	3.3	1.000

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT EMISSION RATES E U	UNCONT EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 0-3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
IRON & STEEL - BOF EXIST.	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW.	0.90		0.00015									
IRON & STEEL - ELEC ARC EXIST.	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW.	0.90		0.01340									
PHOSPHORC ACID WET	0.81	LB/TON	0.03390	0.01080	2.30000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
SPRPHSPHRC ACD VAC E	0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.00000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
GLASS SPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
ANIMAL FEED DEFLUORN	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.00

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES UNCONT E U	EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
SPRPHSRC ACD SUB CMB											
0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.000	0.00

FLUORIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
IRON & STEEL -.ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.00	0.00	0.0028	0.001	2.3	0.820
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.001	3.3	1.000

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FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT EMISSION RATES E U	UNCONT EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
GLASS OPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
IRON & STEEL - ELEC ARC EXIST.	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW.	0.90		0.01340									
SPRPHSPHRC ACD VAC E	0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 0-3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00091	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
IRON & STEEL - BOF EXIST.	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW.	0.90		0.00015									

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRPHSRC ACD SUB CMB 0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.0005	0.0005	E6 TONS	0.16	0.	0.

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
GLASS OPAL	5•2	4•0	2•7	2•7	5•2	1•0	4100•	0•800
PRIM ALUM SMLTRS	262•	52•4	34•1	82•5	108•	13•2	94900•	0•895
ANIMAL FEED DEFLUORO	19•7	5•3	3•2	11•8	5•3	0•040	5300•	0•993
FRIT MFG	2•6	1•9	1•2	1•2	2•6	0•15	2300•	0•940
CERAMIC CLAY	7•9	5•6	3•7	3•7	7•9	2•4	5500•	0•700
BRICK & RELATED CLAY	18•1	14•3	9•6	9•6	18•1	5•4	12600•	0•700
HYDROFLUORIC ACID	23•5	15•7	8•7	8•7	23•5	0•095	23300•	0•996
GRAN TPL SPRPHOS PRD	0•41	0•12	0•067	0•15	0•18	0•10	80•0	0•556
CASTABLE REFRACTRS	0•31	0•20	0•14	0•14	0•31	0•015	290•	0•950
DIAMMON PHOS FERTLZR	0•62	0•17	0•092	0•22	0•26	0•13	120•	0•500
FIBERGLAS TEXT• PROC•	4•5	1•4	0•53	0•53	4•5	0•015	4400•	0•998
FIBERGLAS WOOL PRCSD	0•046	0•031	0•011	0•011	0•046	0•0089	30•0	0•750
GRAN TPL SPRPHOS STG	0•018	0•012	0•0064	0•0064	0•018	0•0081	9•5	0•538
PHOSPHRC ACID WET	24•0	0•13	0•069	5•1	0•33	0•13	190•	0•681
IRON & STEEL - ELEC ARC	2•0	0•35	0•25	0•82	0•47	0•13	340•	0•672
SPRPHSPHRC ACD VAC E	0•0028	0•0012	0•00	0•00	0•0028	0•00	2•3	0•820
BLR 10 - 250 E6 BTU/HR	11•6	10•1	5•0	5•0	11•6	1•6	9900•	0•859
BLR >250 E6 BTU/HR	53•0	31•0	15•5	15•5	53•0	17•9	35100•	0•937
BLR 0•3-10 E6 BTU/HR	3•7	2•7	1•3	1•3	3•7	0•98	2600•	0•732
IRON & STEEL - BOF	2•9	0•0080	0•0058	1•4	0•010	0•0089	1•4	0•000

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.0006	3.3	1.000

$E_{S\ (Existing)}$

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES UNCONT E S	ALLOWABLE EMISSION RATES UNCONT E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.00
GLASS OPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
SPRPHSRC ACD SUB CMB	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
IRON & STEEL - ELEC ARC EXIST.	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW.	0.90		0.01340									
SPRPHSPHRC ACD VAC E	0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
IRON & STEEL - BOF EXIST.	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW.	0.90		0.00015									

FLUORIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.0006	3.3	1.000
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.00	0.00	0.0028	0.00	2.3	0.820
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T_U 1985	T_A 1975	T_E 1985	T_{UE} 1985	T_S 1985	T_{ND} 1985	$T_S - T_{ND}$ 1985	$1 - E_N/E_S$
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000

$E_{S\ (New)}$

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E_S	E_N	UNCONT E_U	E_{111D}	GROWTH RATES DECIMAL/YR P_B	P_C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON & STEEL - ELEC ARC	LB/TON										
EXIST= 0.90		0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW= 0.90		0.01340									
IRON & STEEL - BOF	LB/TON										
EXIST= 0.90		0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90		0.00015									

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000

$\underline{E_U}$

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT EMISSION RATES E U	UNCONT EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
ANIMAL FEED DEFLUORO											
0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.
HYDROFLUORIC ACID											
0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
PRIM ALUM SMLTRS											
0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
GLASS OPAL											
0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
SPRPHSRC ACD SUB CMB											
0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
FIBERGLAS TEXT. PROC.											
0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
FRIT MFG											
0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PHOSPHRC ACID WET											
0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
CASTABLE REFRACTRS											
0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
CERAMIC CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
BRICK & RELATED CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GRAN TPL SPRPHOS PRD											
0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
DIAMMON PHOS FERTLZR											
0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
FIBERGLAS WOOL PRCSD											
0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
IRON & STEEL - ELEC ARC											
EXIST. 0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW. 0.90		0.01340									
IRON & STEEL - BOF											
EXIST. 0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	21.9	42.7
NEW. 0.90		0.00015									
GRAN TPL SPRPHOS STG											
0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
SPRPHSPHRC ACD VAC E											
0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
BLR >250 E6 BTU/HR											
0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10 - 250 E6 BTU/HR											
0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	TU 1985	TA 1975	TE 1985	TUE 1985	TS 1985	TND 1985	TS - TND 1985	1 - E /E N S
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.0	3.3	1.000
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	130.	0.681
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.0007	0.0028	0.0005	2.3	0.820
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732

$$\frac{1 - E_N/E_S}{}$$

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRPHSRC ACD SUB CMB	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.	0.
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.00
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
SPRPHSPHRC ACD VAC E	0.71	LB/TON	0.00500	0.00090	0.00300	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
GLASS OPAL	0.90	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
IRON & STEEL - ELEC ARC												
EXIST. 0.90		LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW. 0.90			0.01340									
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
IRON & STEEL - BOF												
EXIST. 0.90		LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW. 0.90			0.00015									

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.00	3.3	1.000
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
ANIMAL FEED DEFLUORR	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0	0.0	0.0028	0.0	2.3	0.820
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000

$E_{111(d)}$

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
GLASS OPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
SPRPHSRC ACD SUB CMB	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
IRON & STEEL - ELEC ARC EXIST. 0.90		LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW. 0.90			0.01340									
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
SPRPHSPHRC ACD VAC E	0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
IRON & STEEL - BOF EXIST. 0.90		LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW. 0.90			0.00015									

FLUORIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
GLASS OPAL	5•2	4•0	2•7	2•7	5•2	1•0	4100•	0•800
PRIM ALUM SMLTRS	262•	52•4	34•1	82•5	108•	13•2	94900•	0•895
ANIMAL FEED DEFLUORO	19•7	5•3	3•2	11•8	5•3	0•040	5300•	0•993
FRIT MFG	2•6	1•9	1•2	1•2	2•6	0•15	2300•	0•940
CERAMIC CLAY	7•9	5•6	3•7	3•7	7•9	2•4	5500•	0•700
BRICK & RELATED CLAY	18•1	14•3	9•6	9•6	18•1	5•4	12600•	0•700
HYDROFLUORIC ACID	23•5	15•7	8•7	8•7	23•5	0•095	23300•	0•996
GRAN TPL SPRPHOS PRD	0•41	0•12	0•067	0•15	0•18	0•10	80•0	0•556
FIBERGLAS TEXT• PROC•	4•5	1•4	0•53	0•53	4•5	0•015	4400•	0•998
CASTABLE REFRACTRS	0•31	0•20	0•14	0•14	0•31	0•015	290•	0•950
DIAMMON PHOS FERTLZR	0•62	0•17	0•092	0•22	0•26	0•13	120•	0•500
PHOSPHRC ACID WET	24•0	0•13	0•069	5•1	0•33	0•13	190•	0•681
GRAN TPL SPRPHOS STG	0•018	0•012	0•0064	0•0064	0•018	0•0081	9•5	0•538
SPRPHSRC ACD SUB CMB	0•97	0•0038	0•0038	0•97	0•0038	0•0006	3•3	1•000
IRON & STEEL - ELEC ARC	2•0	0•35	0•25	0•82	0•47	0•13	340•	0•672
BLR >250 E6 BTU/HR	53•0	31•0	15•5	15•5	53•0	17•9	35100•	0•937
FIBERGLAS WOOL PRCSD	0•046	0•031	0•011	0•011	0•046	0•0089	30•0	0•750
SPRPHSPHRC ACD VAC E	0•0028	0•0012	0•001	0•001	0•0028	0•0005	2•3	0•820
BLR 10 - 250 E6 BTU/HR	11•6	10•1	5•0	5•0	11•6	1•6	9900•	0•859
BLR 0•3-10 E6 BTU/HR	3•7	2•7	1•3	1•3	3•7	0•98	2600•	0•732

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000

P_B

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
FIBERGLAS TEXT. PROC.											
0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
FIBERGLAS WOOL PRCSD											
0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
BLR >250 E6 BTU/HR											
0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10 - 250 E6 BTU/HR											
0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
PHOSPHRC ACID WET											
0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
DIAMMON PHOS FERTLZR											
0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
GRAN TPL SPRPHOS PRD											
0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
HYDROFLUORIC ACID											
0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
GRAN TPL SPRPHOS STG											
0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
SPRPHSPHRC ACD VAC E											
0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
BLR 0.3-10 E6 BTU/HR											
0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
ANIMAL FEED DEFLUORO											
0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.
PRIM ALUM SMLTRS											
0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
CERAMIC CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
FRIT MFG											
0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BRICK & RELATED CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CASTABLE REFRACTRS											
0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
GLASS OPAL											
0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
IRON & STEEL - ELEC ARC											
EXIST. 0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW. 0.90		0.01340									
IRON & STEEL - BOF											
EXIST. 0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW. 0.90		0.00015									

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRPHSRC ACD SUB CMB 0.71	LB/TON	0.06900	0.00000	17.5000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR		
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.0007	0.0028	0.0005	2.3	0.820
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.0006	3.3	1.000

P_C (Compound)

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K / EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT EMISSION RATES E U	UNCONT EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
FIBERGLAS TEXT. PROC. 0.70 LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
PHOSPHRC ACID WET 0.81 LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
SPRPHSPHRC ACD VAC E 0.71 LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
PRIM ALUM SMLTRS 0.92 LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR >250 E6 BTU/HR 0.58 LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
CASTABLE REFRACTRS 0.80 LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
FIBERGLAS WOOL PRCSD 0.70 LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG 0.76 LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
GRAN TPL SPRPHOS PRD 0.76 LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
BLR 10 - 250 E6 BTU/HR 0.32 LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
ANIMAL FEED DEFLUORO 0.90 LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.001	0.0	0.0028	0.00	2.3	0.820
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993

$P_{C\ (Simple)}$

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON & STEEL - ELEC ARC												
EXIST=	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW=	0.90		0.01340									
DIAMMON PHOS FERTLZR												
	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
HYDROFLUORIC ACID												
	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
IRON & STEEL - BOF												
EXIST=	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.00015									
CERAMIC CLAY												
	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
FRIT MFG												
	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BLR 0.3-10 E6 BTU/HR												
	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
GLASS OPAL												
	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
BRICK & RELATED CLAY												
	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ANIMAL FEED DEFLUORO												
	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
SPRPHSRC ACD SUB CMB												
	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.000	0.0

FLUORIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.001	3.3	1.000

K

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
HYDROFLUORIC ACID											
0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
PRIM ALUM SMLTRS											
0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
ANIMAL FEED DEFLUORO											
0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
IRON & STEEL - ELEC ARC											
EXIST. 0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW. 0.90		0.01340									
IRON & STEEL - BOF											
EXIST. 0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW. 0.90		0.00015									
DIAMMON PHOS FERTLZR											
0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
PHOSPHRC ACID WET											
0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
CERAMIC CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
CASTABLE REFRACTRS											
0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
GLASS OPAL											
0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
FRIT MFG											
0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BRICK & RELATED CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GRAN TPL SPRPHOS STG											
0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
GRAN TPL SPRPHOS PRD											
0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
SPRPHSPHRC ACD VAC E											
0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
SPRPHSRC ACD SUB CMB											
0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
FIBERGLAS TEXT. PROC.											
0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
FIBERGLAS WOOL PRCSD											
0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
BLR >250 E6 BTU/HR											
0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10 - 250 E6 BTU/HR											
0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BLR C-3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00091	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.001	0.00	0.0028	0.00	2.3	0.820
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.00	3.3	1.000
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732

T_U

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
ANIMAL FEED DEFLUOR	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.00
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
GLASS SPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
IRON & STEEL - BOF EXIST.	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW.	0.90		0.00015									
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
IRON & STEEL - ELEC ARC EXIST.	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW.	0.90		0.01340									
SPRPHSRC ACD SUB CMB	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRPHSPHRC ACD VAC E 0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PRIM ALUM SMLTRS	262•	52•4	34•1	82•5	108•	13•2	94900•	0•895
BLR >250 E6 BTU/HR	53•0	31•0	15•5	15•5	53•0	17•9	35100•	0•937
PHOSPHRC ACID WET	24•0	0•13	0•069	5•1	0•33	0•13	190•	0•681
HYDROFLUORIC ACID	23•5	15•7	8•7	8•7	23•5	0•095	23300•	0•996
ANIMAL FEED DEFLUORO	19•7	5•3	3•2	11•8	5•3	0•040	5300•	0•993
BRICK & RELATED CLAY	18•1	14•3	9•6	9•6	18•1	5•4	12600•	0•700
BLR 10 - 250 E6 BTU/HR	11•6	10•1	5•0	5•0	11•6	1•6	9900•	0•859
CERAMIC CLAY	7•9	5•6	3•7	3•7	7•9	2•4	5500•	0•700
GLASS OPAL	5•2	4•0	2•7	2•7	5•2	1•0	4100•	0•800
FIBERGLAS TEXT• PROC•	4•5	1•4	0•53	0•53	4•5	0•015	4400•	0•998
BLR 0•3-10 E6 BTU/HR	3•7	2•7	1•3	1•3	3•7	0•98	2600•	0•732
IRON & STEEL - BOF	2•9	0•0080	0•0058	1•4	0•010	0•0089	1•4	0•000
FRIT MFG	2•6	1•9	1•2	1•2	2•6	0•15	2300•	0•940
IRON & STEEL - ELEC ARC	2•0	0•35	0•25	0•82	0•47	0•13	340•	0•672
SPRPHSRC ACD SUB CMB	0•97	0•0038	0•0038	0•97	0•0038	0•00	3•3	1•000
DIAMMON PHOS FERTLZR	0•62	0•17	0•092	0•22	0•26	0•13	120•	0•500
GRAN TPL SPRPHOS PRD	0•41	0•12	0•067	0•15	0•18	0•10	80•0	0•556
CASTABLE REFRACTRS	0•31	0•20	0•14	0•14	0•31	0•015	290•	0•950
FIBERGLAS WOOL PRCSD	0•046	0•031	0•011	0•011	0•046	0•0089	30•0	0•750
GRAN TPL SPRPHOS STG	0•018	0•012	0•0064	0•0064	0•018	0•0081	9•5	0•538

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.0007	0.0028	0.0005	2.3	0.820

T_A

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION	ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PRIM ALUM SMLTRS											
0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR >250 E6 BTU/HR											
0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
HYDROFLUORIC ACID											
0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
BRICK & RELATED CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BLR 10 - 250 E6 BTU/HR											
0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
CERAMIC CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
ANIMAL FEED DEFLUORO											
0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
GLASS OPAL											
0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
BLR 0.3-10 E6 BTU/HR											
0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
FRIT MFG											
0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
FIBERGLAS TEXT. PROC.											
0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
IRON & STEEL - ELEC ARC											
EXIST= 0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW= 0.90		0.01340									
CASTABLE REFRACTRS											
0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
DIAMMON PHOS FERTLZR											
0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
PHOSPHRC ACID WET											
0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
GRAN TPL SPRPHOS PRD											
0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS WOOL PRCSD											
0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG											
0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
IRON & STEEL - BOF											
EXIST= 0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90		0.00015									
SPRPHSRC ACD SUB CMB											
0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRPHSPHRC ACD VAC E 0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88

FLUORIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PRIM ALUM SMLTRS	262•	52•4	34•1	82•5	108•	13•2	94900•	0•895
BLR >250 E6 BTU/HR	53•0	31•0	15•5	15•5	53•0	17•9	35100•	0•937
HYDROFLUORIC ACID	23•5	15•7	8•7	8•7	23•5	0•095	23300•	0•996
BRICK & RELATED CLAY	18•1	14•3	9•6	9•6	18•1	5•4	12600•	0•700
BLR 10 - 250 E6 BTU/HR	11•6	10•1	5•0	5•0	11•6	1•6	9900•	0•859
CERAMIC CLAY	7•9	5•6	3•7	3•7	7•9	2•4	5500•	0•700
ANIMAL FEED DEFLUORO	19•7	5•3	3•2	11•8	5•3	0•040	5300•	0•993
GLASS OPAL	5•2	4•0	2•7	2•7	5•2	1•0	4100•	0•800
BLR 0•3-10 E6 BTU/HR	3•7	2•7	1•3	1•3	3•7	0•98	2600•	0•732
FRIT MFG	2•6	1•9	1•2	1•2	2•6	0•15	2300•	0•940
FIBERGLAS TEXT• PROC•	4•5	1•4	0•53	0•53	4•5	0•015	4400•	0•998
IRON & STEEL - ELEC ARC	2•0	0•35	0•25	0•82	0•47	0•13	340•	0•672
CASTABLE REFRACTRS	0•31	0•20	0•14	0•14	0•31	0•015	290•	0•950
DIAMMON PHOS FERTLZR	0•62	0•17	0•092	0•22	0•26	0•13	120•	0•500
PHOSPHRC ACID WET	24•0	0•13	0•069	5•1	0•33	0•13	190•	0•681
GRAN TPL SPRPHOS PRD	0•41	0•12	0•067	0•15	0•18	0•10	80•0	0•556
FIBERGLAS WOOL PRCSD	0•046	0•031	0•011	0•011	0•046	0•0089	30•0	0•750
GRAN TPL SPRPHOS STG	0•018	0•012	0•0064	0•0064	0•018	0•0081	9•5	0•538
IRON & STEEL - BOF	2•9	0•0080	0•0058	1•4	0•010	0•0089	1•4	0•000
SPRPHSRC ACD SUB CMB	0•97	0•0038	0•0038	0•97	0•0038	0•0006	3•3	1•000

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.00	0.0028	0.0005	2.3	0.820

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FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
GLASS SPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
IRON & STEEL - ELEC ARC EXIST=	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW=	0.90		0.01340									
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
IRON & STEEL - BOF EXIST=	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.00015									
SPRPHSRC ACD SUB CMB	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES UNCONT E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRPHSPHRC ACD VAC E 0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PRIM ALUM SMLTRS	262•	52.4	34.1	82.5	108•	13.2	94900•	0.895
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100•	0.937
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600•	0.700
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300•	0.996
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900•	0.859
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500•	0.700
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300•	0.993
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100•	0.800
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600•	0.732
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300•	0.940
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400•	0.998
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340•	0.672
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290•	0.950
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120•	0.500
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190•	0.681
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.0006	3.3	1.000

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.00	0.0028	0.0005	2.3	0.820

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FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
GLASS OPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
IRON & STEEL - BOF EXIST=	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.00015									
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
SPRPHSRC ACD SUB CMB	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
IRON & STEEL - ELEC ARC EXIST=	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW=	0.90		0.01340									
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
SPRPHSPHRC ACD VAC E 0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T VE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PRIM ALUM SMLTRS	262•	52.4	34.1	82.5	108•	13.2	94900•	0.895
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100•	0.937
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300•	0.993
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600•	0.700
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300•	0.996
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190•	0.681
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900•	0.859
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500•	0.700
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100•	0.800
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600•	0.732
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300•	0.940
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.00	3.3	1.000
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340•	0.672
FIBERGLAS TEXT• PROC•	4.5	1.4	0.53	0.53	4.5	0.015	4400•	0.998
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120•	0.500
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290•	0.950
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
GRAN TPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.0007	0.0028	0.0005	2.3	0.820

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FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
PRIM ALUM SMLTRS	0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
HYDROFLUORIC ACID	0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
BRICK & RELATED CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BLR 10 - 250 E6 BTU/HR	0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
CERAMIC CLAY	0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
ANIMAL FEED DEFLUORO	0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
GLASS OPAL	0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
FIBERGLAS TEXT. PROC.	0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
BLR 0.3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
FRIT MFG	0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
IRON & STEEL - ELEC ARC												
EXIST=	0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW=	0.90		0.01340									
PHOSPHRC ACID WET	0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
CASTABLE REFRACTRS	0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
DIAMMON PHOS FERTLZR	0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
GRAN TPL SPRPHOS PRD	0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS WOOL PRCSD	0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG	0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
IRON & STEEL - BOF												
EXIST=	0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.00015									
SPRPHSRC ACD SUB CMB	0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES UNCONT E U	EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
SPRPHSPHRC ACD VAC E	0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR		
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PRIM ALUM SMLTRS	262•	52•4	34•1	82•5	108•	13•2	94900•	0•895
BLR >250 E6 BTU/HR	53•0	31•0	15•5	15•5	53•0	17•9	35100•	0•937
HYDROFLUORIC ACID	23•5	15•7	8•7	8•7	23•5	0•095	23300•	0•996
BRICK & RELATED CLAY	18•1	14•3	9•6	9•6	18•1	5•4	12600•	0•700
BLR 10 - 250 E6 BTU/HR	11•6	10•1	5•0	5•0	11•6	1•6	9900•	0•859
CERAMIC CLAY	7•9	5•6	3•7	3•7	7•9	2•4	5500•	0•700
ANIMAL FEED DEFLUORO	19•7	5•3	3•2	11•8	5•3	0•040	5300•	0•993
GLASS OPAL	5•2	4•0	2•7	2•7	5•2	1•0	4100•	0•800
FIBERGLAS TEXT• PROC•	4•5	1•4	0•53	0•53	4•5	0•015	4400•	0•998
BLR 0•3-10 E6 BTU/HR	3•7	2•7	1•3	1•3	3•7	0•98	2600•	0•732
FRIT MFG	2•6	1•9	1•2	1•2	2•6	0•15	2300•	0•940
IRON & STEEL - ELEC ARC	2•0	0•35	0•25	0•82	0•47	0•13	340•	0•672
PHOSPHRC ACID WET	24•0	0•13	0•069	5•1	0•33	0•13	190•	0•681
CASTABLE REFRACTRS	0•31	0•20	0•14	0•14	0•31	0•015	290•	0•950
DIAMMON PHOS FERTLZR	0•62	0•17	0•092	0•22	0•26	0•13	120•	0•500
GRAN TPL SPRPHOS PRD	0•41	0•12	0•067	0•15	0•18	0•10	80•0	0•556
FIBERGLAS WOOL PRCSD	0•046	0•031	0•011	0•011	0•046	0•0089	30•0	0•750
GRAN TPL SPRPHOS STG	0•018	0•012	0•0064	0•0064	0•018	0•0081	9•5	0•538
IRON & STEEL - BOF	2•9	0•0080	0•0058	1•4	0•010	0•0089	1•4	0•000
SPRPHSRC ACD SUB CMB	0•97	0•0038	0•0038	0•97	0•0038	0•0006	3•3	1•000

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.00	0.0028	0.0005	2.3	0.820

T_{ND}

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	ALLOWABLE E S	E N	UNCONT E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
BLR >250 E6 BTU/HR											
0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
PRIM ALUM SMLTRS											
0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BRICK & RELATED CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CERAMIC CLAY											
0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
BLR 10 - 250 E6 BTU/HR											
0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
GLASS OPAL											
0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
BLR 0.3-10 E6 BTU/HR											
0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
FRIT MFG											
0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
DIAMMON PHOS FERTLZR											
0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
PHOSPHRC ACID WET											
0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
IRON & STEEL - ELEC ARC											
EXIST= 0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW= 0.90		0.01340									
GRAN TPL SPRPHOS PRD											
0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
HYDROFLUORIC ACID											
0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
ANIMAL FEED DEFLUORO											
0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.00
CASTABLE REFRACTRS											
0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
FIBERGLAS TEXT. PROC.											
0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
FIBERGLAS WOOL PRCSD											
0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
IRON & STEEL - BOF											
EXIST= 0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.3	42.7
NEW= 0.90		0.00015									
GRAN TPL SPRPHOS STG											
0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
SPRPHSRC ACD SUB CMB											
0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE			EMISSION RATES			GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE	UNCONT		DECIMAL/YR					
K	EMISSION UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SPRPHSPHRC ACD VAC E											
0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88

FLUORIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR >250 E6 BTU/HR	53.0	31.0	15.5	15.5	53.0	17.9	35100.	0.937
PRIM ALUM SMLTRS	262.	52.4	34.1	82.5	108.	13.2	94900.	0.895
BRICK & RELATED CLAY	18.1	14.3	9.6	9.6	18.1	5.4	12600.	0.700
CERAMIC CLAY	7.9	5.6	3.7	3.7	7.9	2.4	5500.	0.700
BLR 10 - 250 E6 BTU/HR	11.6	10.1	5.0	5.0	11.6	1.6	9900.	0.859
GLASS OPAL	5.2	4.0	2.7	2.7	5.2	1.0	4100.	0.800
BLR 0.3-10 E6 BTU/HR	3.7	2.7	1.3	1.3	3.7	0.98	2600.	0.732
FRIT MFG	2.6	1.9	1.2	1.2	2.6	0.15	2300.	0.940
DIAMMON PHOS FERTLZR	0.62	0.17	0.092	0.22	0.26	0.13	120.	0.500
PHOSPHRC ACID WET	24.0	0.13	0.069	5.1	0.33	0.13	190.	0.681
IRON & STEEL - ELEC ARC	2.0	0.35	0.25	0.82	0.47	0.13	340.	0.672
GRAN TPL SPRPHOS PRD	0.41	0.12	0.067	0.15	0.18	0.10	80.0	0.556
HYDROFLUORIC ACID	23.5	15.7	8.7	8.7	23.5	0.095	23300.	0.996
ANIMAL FEED DEFLUORO	19.7	5.3	3.2	11.8	5.3	0.040	5300.	0.993
CASTABLE REFRACTRS	0.31	0.20	0.14	0.14	0.31	0.015	290.	0.950
FIBERGLAS TEXT. PROC.	4.5	1.4	0.53	0.53	4.5	0.015	4400.	0.998
FIBERGLAS WOOL PRCSD	0.046	0.031	0.011	0.011	0.046	0.0089	30.0	0.750
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000
GRAN YPL SPRPHOS STG	0.018	0.012	0.0064	0.0064	0.018	0.0081	9.5	0.538
SPRPHSRC ACD SUB CMB	0.97	0.0038	0.0038	0.97	0.0038	0.0006	3.3	1.000

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR. T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SPRPHSPHRC ACD VAC E	0.0028	0.0012	0.0007	0.00	0.0028	0.0005	2.3	0.820

$\underline{T_S - T_{ND}}$

FLUORIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E N	E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PRIM ALUM SMLTRS											
K 0.92	LB/TON	19.00000	2.00000	46.00000	3.000000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BLR >250 E6 BTU/HR											
K 0.58	LB/E6 BTU	0.00382	0.00024	0.00382	0.003820	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
HYDROFLUORIC ACID											
K 0.98	LB/TON	71.39999	0.29000	71.39999	0.290000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
BRICK & RELATED CLAY											
K 0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BLR 10 - 250 E6 BTU/HR											
K 0.32	LB/E6 BTU	0.00322	0.00045	0.00322	0.000454	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
CERAMIC CLAY											
K 0.80	LB/TON	1.00000	0.30000	1.00000	0.300000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
ANIMAL FEED DEFLUORO											
K 0.90	LB/TON	59.39999	0.44000	219.00000	0.440000	0.040S	0.000	E6 TONS	0.20	0.080	0.0
FIBERGLAS TEXT. PROC.											
K 0.70	LB/TON	8.15000	0.02000	8.15000	0.082000	0.063S	0.122C	E6 TONS	0.50	0.31	1.1
GLASS OPAL											
K 0.80	LB/TON	22.09999	4.42000	22.09999	4.419999	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
BLR 0.3-10 E6 BTU/HR											
K 0.25	LB/E6 BTU	0.00081	0.00022	0.00081	0.000216	0.043C	0.037S	E12 BTU	26471.	13857.	9794.
FRIT MFG											
K 0.80	LB/TON	5.56000	0.33400	5.56000	0.334000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
IRON & STEEL - ELEC ARC											
EXIST= 0.90	LB/TON	0.02100	0.00440	0.06900	0.004400	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW= 0.90		0.01340									
CASTABLE REFRACTRS											
K 0.80	LB/TON	1.30000	0.06500	1.30000	0.065000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
PHOSPHRC ACID WET											
K 0.81	LB/TON	0.03390	0.01080	2.50000	0.021700	0.045S	0.100C	E6 TONS	9.1	4.1	14.6
DIAMMON PHOS FERTLZR											
K 0.89	LB/TON	0.12000	0.06000	0.29000	0.060000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
GRAN TPL SPRPHOS PRD											
K 0.76	LB/TON	0.27000	0.12000	0.60000	0.200000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
FIBERGLAS WOOL PRCSD											
K 0.70	LB/TON	0.08000	0.02000	0.08000	0.001000	0.063S	0.042C	E6 TONS	1.1	0.69	0.56
GRAN TPL SPRPHOS STG											
K 0.76	LB/TON	0.02600	0.01200	0.02600	0.012000	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
SPRPHSRC ACD SUB CMB											
K 0.71	LB/TON	0.06900	0.00000	17.50000	0.010000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
SPRPHSPHRC ACD VAC E											
K 0.71	LB/TON	0.00500	0.00090	0.00500	0.000900	0.045S	0.085C	E6 TONS	0.69	0.31	0.88
IRON & STEEL - BOF											
EXIST= 0.90	LB/TON	0.00020	0.00015	0.04900	0.000150	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90		0.00015									

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PRIM ALUM SMLTRS	262•	52•4	34•1	82•5	108•	13•2	94900•	0•895
BLR >250 E6 BTU/HR	53•0	31•0	15•5	15•5	53•0	17•9	35100•	0•937
HYDROFLUORIC ACID	23•5	15•7	8•7	8•7	23•5	0•095	23300•	0•996
BRICK & RELATED CLAY	18•1	14•3	9•6	9•6	18•1	5•4	12600•	0•700
BLR 10 - 250 E6 BTU/HR	11•6	10•1	5•0	5•0	11•6	1•6	9900•	0•859
CERAMIC CLAY	7•9	5•6	3•7	3•7	7•9	2•4	5500•	0•700
ANIMAL FEED DEFLUORO	19•7	5•3	3•2	11•8	5•3	0•040	5300•	0•993
FIBERGLAS TEXT• PROC•	4•5	1•4	0•53	0•53	4•5	0•015	4400•	0•998
GLASS OPAL	5•2	4•0	2•7	2•7	5•2	1•0	4100•	0•800
BLR 0•3-10 E6 BTU/HR	3•7	2•7	1•3	1•3	3•7	0•98	2600•	0•732
FRIT MFG	2•6	1•9	1•2	1•2	2•6	0•15	2300•	0•940
IRON & STEEL - ELEC ARC	2•0	0•35	0•25	0•82	0•47	0•13	340•	0•672
CASTABLE REFRACTRS	0•31	0•20	0•14	0•14	0•31	0•015	290•	0•950
PHOSPHRC ACID WET	24•0	0•13	0•069	5•1	0•33	0•13	190•	0•681
DIAMMON PHOS FERTLZR	0•62	0•17	0•092	0•22	0•26	0•13	120•	0•500
GRAN TPL SPRPHOS PRD	0•41	0•12	0•067	0•15	0•18	0•10	80•0	0•556
FIBERGLAS WOOL PRCSD	0•046	0•031	0•011	0•011	0•046	0•0089	30•0	0•750
GRAN TPL SPRPHOS STG	0•018	0•012	0•0064	0•0064	0•018	0•0081	9•5	0•538
SPRPHSRC ACD SUB CMB	0•97	0•0038	0•0038	0•97	0•0038	0•0006	3•3	1•000
SPRPHSPHRC ACD VAC E	0•0028	0•0012	0•0007	0•00	0•0028	0•0005	2•3	0•820

FLUORIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
IRON & STEEL - BOF	2.9	0.0080	0.0058	1.4	0.010	0.0089	1.4	0.000

RANKED DATA FOR HAZARDOUS POLLUTANTS

A

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.0009	3.0	0.778
CHLR-ALKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799

B

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799

c

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K / EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
CHLR-AKLI MERC CELL 0.95 LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING EXIST= 1.00 LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00	0.00063									
PESTICIDES 0.83 LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS 0.83 LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799

E_N

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T_U 1985	T_A 1975	T_E 1985	T_{UE} 1985	T_S 1985	T_{ND} 1985	TONS/YEAR $T_S - T_{ND}$ 1985	$1 - E_N/E_S$
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

E_S (Existing)

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE			EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	EMISSION UNITS	E S	ALLOWABLE E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

$E_{S\ (New)}$

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE				EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION			
K	EMISSION UNITS	E S	ALLOWABLE E N	UNCONT E U	E 1110		P B	P C	UNITS/YR	A 1975	B 1985	C 1985	

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S

E_U

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES UNCONT E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

$$\frac{1 - E_N/E_S}{}$$

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
COTTON GINNING											
EXIST. 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW. 1.00		0.00063									
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778.
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167

$E_{111(d)}$

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T_U 1985	T_A 1975	T_E 1985	T_{UE} 1985	T_S 1985	T_{ND} 1985	$T_S - T_{ND}$ 1985	$1 - E_N/E_S$
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

P_B

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

$P_{C\ (Compound)}$

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167

$P_{C\ (Simple)}$

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1935	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

K

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799

T_U

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION	EMISSION RATES				GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	ALLOWABLE E N	UNCONT E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

T_A

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T_U 1985	T_A 1975	T_E 1985	T_{UE} 1985	T_S 1985	T_{ND} 1985	$T_S - T_{ND}$ 1985	$1 - E_N/E_S$
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

$\underline{T_E}$

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION UNITS	ALLOWABLE EMISSION RATES		UNCONT EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K		ES	EN	EU	E111D	PB	PC	UNITS/YR	A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

T_S

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

T_{ND}

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION	EMISSION RATES ALLOWABLE		UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
COTTON GINNING											
EXIST= 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW= 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T_U 1985	T_A 1975	T_E 1985	T_{UE} 1985	T_S 1985	T_{ND} 1985	$T_S - T_{ND}$ 1985	$1 - E_N / E_S$
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.090	8900.	0.990
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

$$\frac{T_S - T_{ND}}{}$$

HAZARDOUS POLLUTANTS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
PESTICIDES											
0.83	LB/TON	10.00000	0.10000	10.00000	0.100000	0.045S	0.074C	E6 TONS	1.1	0.48	1.1
PHARMACEUTICALS											
0.83	LB/TON	0.22900	0.04600	0.22900	0.046000	0.045S	0.090C	E6 TONS	0.24	0.11	0.33
CHLR-AKLI MERC CELL											
0.95	LB/TON	0.00600	0.00500	0.62000	0.005000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
COTTON GINNING											
EXIST. 1.00	LB/BALE	0.00063	0.00014	0.00360	0.000140	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
NEW. 1.00		0.00063									

HAZARDOUS POLLUTANTS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PESTICIDES	9.0	4.4	2.4	2.4	9.0	0.089	8900.	0.990
PHARMACEUTICALS	0.054	0.023	0.013	0.013	0.054	0.011	40.0	0.799
CHLR-AKLI MERC CELL	2.1	0.011	0.0059	0.61	0.020	0.017	3.3	0.167
COTTON GINNING	0.022	0.0034	0.0020	0.011	0.0038	0.001	3.0	0.778

RANKED DATA FOR ACID MIST

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
LEAD ACID BATTERY												
	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SULFURIC ACID												
EXIST=	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW=	0.84		0.15000									
CERAMIC CLAY												
	0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
HYDROCHLRC ACID BYPD												
	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
SEC ALUM REVRB FURN												
	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
HYDROCHLRC ACID SALT												
	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM												
	0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
LEAD ACID BATTERY	2•0	1•2	0•73	0•73	2•0	0•000	1900•	1•000
SULFURIC ACID	79•0	34•4	18•9	25•9	22•4	4•0	18400•	0•333
CERAMIC CLAY	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
HYDROCHLRC ACID BYPD	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
SEC ALUM REVRB FURN	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
HYDRSCHLRC ACID SALT	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
SPRPHSPHRC ACD SB CM	0•018	0•018	0•018	0•018	0•018	0•000	10•0	1•000

B

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
LEAD ACID BATTERY												
	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SULFURIC ACID												
EXIST*	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW*	0.84		0.15000									
CERAMIC CLAY												
	0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
HYDROCHLRC ACID BYPD												
	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
SEC ALUM REVRB FURN												
	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
HYDROCHLRC ACID SALT												
	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM												
	0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
LEAD ACID BATTERY								
SULFURIC ACID	2•0	1•2	0•73	0•73	2•0	0•000	1900•	1•000
CERAMIC CLAY	79•0	34•4	18•9	25•9	22•4	4•0	18400•	0•333
HYDROCHLRC ACID BYPD	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
SEC ALUM REVRB FURN	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
HYDROCHLRC ACID SALT	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
SPRPHSPHRC ACD SB CM	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
	0•018	0•018	0•018	0•018	0•018	0•000	10•0	1•000

C

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SULFURIC ACID												
EXIST=	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW=	0.84		0.15000									
CERAMIC CLAY	0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
HYDROCHLRC ACID BYPD	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
SEC ALUM REVRB FURN	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
HYDROCHLRC ACID SALT	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM	0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
LEAD ACID BATTERY	2•0	1•2	0•73	0•73	2•0	0•000	1900•	1•000
SULFURIC ACID	79•0	34•4	18•9	25•9	22•4	4•0	18400•	0•333
CERAMIC CLAY	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
HYDROCHLRC ACID BYPD	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
SEC ALUM REVRB. FURN	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
HYDROCHLRC ACID SALT	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
SPRPHSPHRC ACD SB CM	0•018	0•018	0•018	0•018	0•018	0•000	10•0	1•000

E_N

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID											
EXIST= 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW= 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.0	0.0

ACID MIST

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
SEC ALUM REVRB FURN	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
SULFURIC ACID	79•0	34•4	18•9	25•9	22•4	4•0	18000•	0•333
HYDROCHLRC ACID BYPD	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
HYDROCHLRC ACID SALT	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
LEAD ACID BATTERY	2•0	1•2	0•73	0•73	2•0	0•000	1900•	1•000
SPRPHSPHRC ACD SB CM	0•018	0•018	0•018	0•018	0•018	0•000	10•0	1•000

E_S (Existing)

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1995	C 1985
SEC ALUM REVRB FURN	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CERAMIC CLAY	0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
HYDROCHLRC ACID BYPD	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYDROCHLRC ACID SALT	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SULFURIC ACID EXIST*	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW*	0.84		0.15000									
SPRPHSPHRC ACD SB CM	0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1935	1 - E /E N S
SEC ALUM REVRB FURN	137.	87.0	55.7	55.7	137.	0.14	137000.	0.999
CERAMIC CLAY	152.	107.	71.5	71.5	152.	5.0	146000.	0.967
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000.	0.967
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500.	0.961
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.0	10.0	1.000
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.0	1900.	1.000

$E_{S\ (New)}$

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE				EMISSION RATES		GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
	EMISSION		ALLOWABLE	UNCONT		DECIMAL/YR					
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SULFURIC ACID											
EXIST= 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW= 0.84		0.15000									

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SEC ALUM REVRB FURN	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CERAMIC CLAY	0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
HYDROCHLRC ACID BYPD	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYDROCHLRC ACID SALT	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SULFURIC ACID												
EXIST=	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW=	0.84		0.15000									
SPRPHSPHRC ACD SB CM	0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3

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ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UL 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SEC ALUM REVRB FURN	137.	87.0	55.7	55.7	137.	0.14	137000.	0.999
CERAMIC CLAY	152.	107.	71.5	71.5	152.	5.0	146000.	0.967
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000.	0.967
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500.	0.961
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.0	10.0	1.000
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.0	1900.	1.000

$$\frac{1 - E_N/E_S}{}$$

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.0	0.0
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SULFURIC ACID											
EXIST= 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW= 0.84		0.15000									

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SPRPHSPHRC ACD SB CH	0.018	0.018	0.018	0.018	0.018	0.0	10.0	1.000
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.0	1900.	1.000
SEC ALUM REVRB FURN	137.	87.0	55.7	55.7	137.	0.14	137000.	0.999
CERAMIC CLAY	152.	107.	71.5	71.5	152.	5.0	146000.	0.967
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000.	0.967
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500.	0.961
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333

$E_{111(d)}$

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID											
EXIST= 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW= 0.84		0.15000									
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152.	107.	71.5	71.5	152.	5.0	146000.	0.967
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000.	0.967
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500.	0.961
SEC ALUM REVRB FURN	137.	87.0	55.7	55.7	137.	0.14	137000.	0.999
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.0	10.0	1.000
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.0	1900.	1.000

P_B

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION UNITS	ALLOWABLE EMISSION RATES		UNCONT EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K		E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SULFURIC ACID											
EXIST= 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW= 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYCROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.0	0.0

ACID MIST

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000.	0.967
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500.	0.961
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.000	1900.	1.000
SEC ALUM REVRB FURN	137.	87.0	55.7	55.7	137.	0.14	137000.	0.999
CERAMIC CLAY	152.	107.	71.5	71.5	152.	5.0	146000.	0.967
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.0	10.0	1.000

P_C (Compound)

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
HYDROCHLRC ACID BYPD	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYDROCHLRC ACID SALT	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SULFURIC ACID EXIST=	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW=	0.84		0.15000									
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC ALUM REVRB FURN	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000.	0.967
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500.	0.961
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.0	1900.	1.000
SEC ALUM REVRB FURN	137.	87.0	55.7	55.7	137.	0.14	137000.	0.999

$P_{C\ (Simple)}$

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE			EMISSION RATES				GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	EMISSION UNITS	E S	ALLOWABLE E N	UNCONT E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.0	0.0

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY								
SPRPHSPHRC ACD SB CM	152.	107.	71.5	71.5	152.	5.0	146000.	0.967
	0.018	0.018	0.018	0.018	0.018	0.0	10.0	1.000

K

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION	EMISSION RATES				GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	ALLOWABLE E N	UNCONT E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SULFURIC ACID											
EXIST= 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW= 0.84		0.15000									
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.0	0.0

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
HYDROCHLRC ACID BYPD	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
HYDROCHLRC ACID SALT	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
SULFURIC ACID	79•0	34•4	18•9	25•9	22•4	4•0	18400•	0•333
SEC ALUM REVRB FURN	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
CERAMIC CLAY	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
LEAD ACID BATTERY	2•0	1•2	0•73	0•73	2•0	0•0	1900•	1•000
SPRPHSPHRC ACD SB CM	0•018	0•018	0•018	0•018	0•018	0•0	10•0	1•000

T_U

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
CERAMIC CLAY	0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID EXIST.	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW.	0.84		0.15000									
HYDROCHLRC ACID BYPD	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
HYDROCHLRC ACID SALT	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM	0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152•	107•	71.5	71.5	152•	5.0	146000•	0.967
SEC ALUM REVRB FURN	137•	87.0	55.7	55.7	137•	0.14	137000•	0.999
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400•	0.333
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000•	0.967
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.00	1900•	1.000
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500•	0.961
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.000	10.0	1.000

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID											
EXIST. 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW. 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

T_A

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID											
EXIST 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152.	107.	71.5	71.5	152.	5.0	146000.	0.967
SEC ALUM REVRB FURN	137.	87.0	55.7	55.7	137.	0.14	137000.	0.999
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400.	0.333
HYDRCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000.	0.967
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.00	1900.	1.000
HYDRCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500.	0.961
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.000	10.0	1.000

T_E

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID											
EXIST* 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW* 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
SEC ALUM REVRB FURN	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
SULFURIC ACID	79•0	34•4	18•9	25•9	22•4	4•0	18400•	0•333
HYDROCHLRC ACID BYPD	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
LEAD ACID BATTERY	2•0	1•2	0•73	0•73	2•0	0•00	1900•	1•000
HYDROCHLRC ACID SALT	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
SPRPHSPHRC ACD SB CM	0•018	0•018	0•018	0•018	0•018	0•000	10•0	1•000

T_{UE}

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID											
EXIST* 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW* 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152•	107•	71.5	71.5	152•	5.0	146000•	0.967
SEC ALUM REVRB FURN	137•	87.0	55.7	55.7	137•	0.14	137000•	0.999
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400•	0.333
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000•	0.967
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.00	1900•	1.000
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500•	0.961
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.000	10.0	1.000

T_S

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	ALLOWABLE E S	E N	UNCONT E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID											
EXIST 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
SEC ALUM REVRB FURN	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
SULFURIC ACID	79•0	34•4	18•9	25•9	22•4	4•0	18400•	0•333
HYDROCHLRC ACID BYPD	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
LEAD ACID BATTERY	2•0	1•2	0•73	0•73	2•0	0•00	1900•	1•000
HYDROCHLRC ACID SALT	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
SPRPHSPHRC ACD SB CM	0•018	0•018	0•018	0•018	0•018	0•000	10•0	1•000

T_{ND}

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES UNCONT E N	E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CERAMIC CLAY											
0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SULFURIC ACID											
EXIST= 0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW= 0.84		0.15000									
HYDROCHLRC ACID BYPD											
0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
SEC ALUM REVRB FURN											
0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
HYDROCHLRC ACID SALT											
0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SPRPHSPHRC ACD SB CM											
0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.0	0.0

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152•	107•	71.5	71.5	152•	5.0	146000•	0.967
SULFURIC ACID	79.0	34.4	18.9	25.9	22.4	4.0	18400•	0.333
HYDROCHLRC ACID BYPD	6.6	3.4	1.9	1.9	6.6	0.47	6000•	0.967
SEC ALUM REVRB FURN	137•	87.0	55.7	55.7	137•	0.14	137000•	0.999
HYDROCHLRC ACID SALT	0.55	0.29	0.16	0.16	0.55	0.046	500•	0.961
LEAD ACID BATTERY	2.0	1.2	0.73	0.73	2.0	0.000	1900•	1.000
SPRPHSPHRC ACD SB CM	0.018	0.018	0.018	0.018	0.018	0.000	10.0	1.000

$$\frac{T_S - T_{ND}}{}$$

ACID MIST

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES E U	EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CERAMIC CLAY												
	0.80	LB/TON	19.20000	0.63400	19.20000	0.634000	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SEC ALUM REVRB FURN												
	0.82	LB/TON	151.59999	0.15200	151.59999	0.152000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
SULFURIC ACID												
EXIST=	0.84	LB/TON	1.68000	0.10000	2.30000	0.150000	0.045S	0.053C	E6 TONS	48.8	22.0	33.0
NEW=	0.84		0.15000									
HYDROCHLRC ACID BYPD												
	0.86	LB/TON	3.00000	0.10000	3.00000	0.500000	0.045S	0.068C	E6 TONS	2.6	1.2	2.4
LEAD ACID BATTERY												
	0.76	LB/PRD UNT	0.04000	0.00000	0.04000	0.000004	0.040S	0.050C	E6 PU	80.0	32.0	50.3
HYDROCHLRC ACID SALT												
	0.86	LB/TON	2.55000	0.10000	2.55000	0.500000	0.045S	0.068C	E6 TONS	0.26	0.12	0.24
SPRPHSPHRC ACD SB CM												
	0.71	LB/TON	0.33000	0.00000	0.33000	0.002000	0.000S	0.000S	E6 TONS	0.16	0.00	0.00

ACID MIST

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CERAMIC CLAY	152•	107•	71•5	71•5	152•	5•0	146000•	0•967
SEC ALUM REVRB FURN	137•	87•0	55•7	55•7	137•	0•14	137000•	0•999
SULFURIC ACID	79•0	34•4	18•9	25•9	22•4	4•0	18400•	0•333
HYDROCHLRC ACID BYPD	6•6	3•4	1•9	1•9	6•6	0•47	6000•	0•967
LEAD ACID BATTERY	2•0	1•2	0•73	0•73	2•0	0•00	1900•	1•000
HYDROCHLRC ACID SALT	0•55	0•29	0•16	0•16	0•55	0•046	500•	0•961
SPRPHSPHRC ACD SB CM	0•018	0•018	0•018	0•018	0•018	0•000	10•0	1•000

RANKED DATA FOR LEAD

A

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
COMB WST CRNKCSE OIL	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.96
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
FERROALLOY	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
PRIMARY LEAD SMELTERS EXIST=	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=	0.85		0.14000									
SEC LEAD - REVERB FURNACE EXIST=	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=	0.68		0.79000									
MINING & MILLING LEAD	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00
BRASS & BRONZE SMELTING EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.07800									
SEC LEAD - BLAST FURNACE EXIST=	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=	0.68		0.79000									
SEC LEAD POT FURN	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0	240.	1.000
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970

B

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
FERROALLOY	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
MINING & MILLING LEAD	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00
PRIMARY LEAD SMELTERS EXIST=	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=	0.85		0.14000									
SEC LEAD - REVERB FURNACE EXIST=	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=	0.68		0.79000									
BRASS & BRONZE SMELTING EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.02400									
SEC LEAD - BLAST FURNACE EXIST=	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=	0.68		0.79000									
SEC LEAD POT FURN	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
COMB WST CRNKCSE OIL	0.58	LB/GAL	0.03800	0.00075	0.02500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.000	240.	1.000
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980

c

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
COMB WST CRNKCSE OIL												
	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958
LEAD ACID BATTERY												
	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC LEAD - REVERB FURNACE												
EXIST.	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW.	0.68		0.79000									
FERROALLOY												
	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
SEC LEAD - BLAST FURNACE												
EXIST.	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW.	0.68		0.79000									
SEC LEAD POT FURN												
	0.58	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
BRASS & BRONZE SMELTING												
EXIST.	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW.	0.80		0.07800									
PRIMARY LEAD SMELTERS												
EXIST.	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW.	0.85		0.14000									
MINING & MILLING LEAD												
	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.000

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0	240.	1.000
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500

E_N

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION UNITS (K)	EMISSION RATES ALLOWABLE (E S)	EMISSION RATES UNCONT (E N)	EMISSION RATES UNCONT (E U)	EMISSION RATES (E 1110)	GROWTH RATES DECIMAL/YR (P B)	GROWTH RATES DECIMAL/YR (P C)	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION (A 1975)	(B 1985)	(C 1985)
SEC LEAD - REVERB FURNACE											
EXIST= 0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68		0.79000									
SEC LEAD - BLAST FURNACE											
EXIST= 0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68		0.79000									
MINING & MILLING LEAD											
0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.000
PRIMARY LEAD SMELTERS											
EXIST= 0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85		0.14000									
SEC LEAD POT FURN											
0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
BRASS & BRONZE SMELTING											
EXIST= 0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80		0.07800									
FERROALLOY											
0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
COMB WST CRNKCSE OIL											
0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.96
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SEC LEAD - REVERB FURNACE	58•1	0•98	0•75	32•2	0•86	0•22	640•	0•165
SEC LEAD - BLAST FURNACE	11•8	0•14	0•10	6•5	0•13	0•046	80•0	0•165
MINING & MILLING LEAD	0•057	0•057	0•029	0•029	0•057	0•029	20•0	0•500
PRIMARY LEAD SMELTERS	12•7	0•053	0•029	7•7	0•048	0•019	20•0	0•600
SEC LEAD POT FURN	0•026	0•019	0•014	0•014	0•026	0•001	20•0	0•970
BRASS & BRONZE SMELTING	0•69	0•032	0•020	0•44	0•024	0•0027	20•0	0•769
FERROALLOY	0•28	0•012	0•0086	0•17	0•014	0•0028	10•0	0•800
COMB WST CRNKCSE OIL	15•0	6•9	6•9	13•7	7•6	1•4	6200•	0•980
• LEAD ACID BATTERY	0•25	0•15	0•091	0•091	0•25	0•0	240•	1•000

E_S (Existing)

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SEC LEAD - REVERB FURNACE												
EXIST= 0.68		LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68			0.79000									
SEC LEAD - BLAST FURNACE												
EXIST= 0.68		LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68			0.79000									
SEC LEAD POT FURN												
0.68		LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.07800									
MINING & MILLING LEAD												
0.92		LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.000
PRIMARY LEAD SMELTERS												
EXIST= 0.99		LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85			0.14000									
COMB WST CRNKCSE OIL												
0.58		LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.958
FERROALLOY												
0.90		LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
LEAD ACID BATTERY												
0.76		LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0000	240.	1.000

$\underline{E_{S\ (New)}}$

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SEC LEAD - BLAST FURNACE												
EXIST=	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=	0.68		0.79000									
SEC LEAD - REVERB FURNACE												
EXIST=	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=	0.68		0.79000									
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.36	0.13	0.0
NEW=	0.80		0.07800									

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769

$\underline{E_U}$

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES UNCONT E N	E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SEC LEAD - REVERB FURNACE												
EXIST= 0.68		LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68			0.79000									
SEC LEAD - BLAST FURNACE												
EXIST= 0.68		LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68			0.79000									
PRIMARY LEAD SMELTERS												
EXIST= 0.99		LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85			0.14000									
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.07800									
SEC LEAD POT FURN												
0.68		LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
FERROALLOY												
0.90		LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
MINING & MILLING LEAD												
0.92		LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00
COMB WST CRNKCSE OIL												
0.58		LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.96
LEAD ACID BATTERY												
0.76		LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.0008	20.0	0.970
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0	240.	1.000

$$\frac{1 - E_N/E_S}{}$$

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES UNCONT E N	E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
COMB WST CRNKCSE OIL	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.0	59.0
SEC LEAD POT FURN	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
FERROALLOY	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.07800									
PRIMARY LEAD SMELTERS												
EXIST= 0.99		LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85			0.14000									
MINING & MILLING LEAD	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00
SEC LEAD - REVERB FURNACE												
EXIST= 0.68		LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68			0.79000									
SEC LEAD - BLAST FURNACE												
EXIST= 0.68		LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68			0.79000									

LEAD

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
* LEAD ACID BATTERY								
COMB WST CRNKCSE OIL	0.25	0.15	0.091	0.091	0.25	0.0	240.	1.000
SEC LEAD POT FURN	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
FERROALLOY	0.026	0.019	0.014	0.014	0.026	0.0	20.0	0.970
BRASS & BRONZE SMELTING	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
PRIMARY LEAD SMELTERS	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
MINING & MILLING LEAD	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
SEC LEAD - REVERB FURNACE	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
SEC LEAD - BLAST FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165

E 1.11(d)

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
SEC LEAD - REVERB FURNACE												
EXIST= 0.68		LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68			0.79000									
SEC LEAD - BLAST FURNACE												
EXIST= 0.68		LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68			0.79000									
MINING & MILLING LEAD												
0.92		LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00
PRIMARY LEAD SMELTERS												
EXIST= 0.99		LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85			0.14000									
SEC LEAD POT FURN												
0.68		LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.07800									
COMB WST CRNKCSE OIL												
0.58		LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958
FERROALLOY												
0.90		LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
LEAD ACID BATTERY												
0.76		LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0000	240.	1.000

P_B

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
MINING & MILLING LEAD												
	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.0
LEAD ACID BATTERY												
	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.07800									
PRIMARY LEAD SMELTERS												
EXIST=	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=	0.85		0.14000									
FERROALLOY												
	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
SEC LEAD - REVERB FURNACE												
EXIST=	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=	0.68		0.79000									
SEC LEAD - BLAST FURNACE												
EXIST=	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=	0.68		0.79000									
SEC LEAD POT FURN												
	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
COMB WST CRNKCSE OIL												
	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.000	240.	1.000
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980

P_C (Compound)

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	ALLOWABLE E N	UNCONT E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC LEAD - BLAST FURNACE											
EXIST= 0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68		0.79000									
SEC LEAD POT FURN											
0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
SEC LEAD - REVERB FURNACE											
EXIST= 0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68		0.79000									
FERROALLOY											
0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
COMB WST CRNKCSE OIL											
0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.96

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0	240.	1.000
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980

$P_{C\ (Simple)}$

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.07800									
PRIMARY LEAD SMELTERS												
EXIST=	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=	0.85		0.14000									
MINING & MILLING LEAD												
	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500

K

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
MINING & MILLING LEAD	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00
FERROALLOY	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
PRIMARY LEAD SMELTERS												
EXIST= 0.99		LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85			0.14000									
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.07800									
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC LEAD - REVERB FURNACE												
EXIST= 0.68		LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68			0.79000									
SEC LEAD - BLAST FURNACE												
EXIST= 0.68		LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68			0.79000									
SEC LEAD POT FURN	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
COMB WST CRNKCSE OIL	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958

LEAD

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0000	240.	1.000
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980

T_U

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SEC LEAD - REVERB FURNACE											
EXIST= 0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68		0.79000									
COMB WST CRNKCSE OIL											
0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958
PRIMARY LEAD SMELTERS											
EXIST= 0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85		0.14000									
SEC LEAD - BLAST FURNACE											
EXIST= 0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68		0.79000									
BRASS & BRONZE SMELTING											
EXIST= 0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80		0.07800									
FERROALLOY											
0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
LEAD ACID BATTERY											
0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
MINING & MILLING LEAD											
0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.0
SEC LEAD POT FURN											
0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SEC LEAD - REVERB FURNACE	58•1	0•98	0•75	32•2	0•86	0•22	640•	0•165
COMB WST CRNKCSE OIL	15•0	6•9	6•9	13•7	7•6	1•4	6200•	0•980
PRIMARY LEAD SMELTERS	12•7	0•053	0•029	7•7	0•048	0•019	20•0	0•600
SEC LEAD - BLAST FURNACE	11•8	0•14	0•10	6•5	0•13	0•046	80•0	0•165
BRASS & BRONZE, SMELTING	0•69	0•032	0•020	0•44	0•024	0•0027	20•0	0•769
FERROALLOY	0•28	0•012	0•0086	0•17	0•014	0•0028	10•0	0•800
* LEAD ACID BATTERY	0•25	0•15	0•091	0•091	0•25	0•0000	240•	1•000
MINING & MILLING LEAD	0•057	0•057	0•029	0•029	0•057	0•029	20•0	0•500
SEC LEAD POT FURN	0•026	0•019	0•014	0•014	0•026	0•001	20•0	0•970

T_A

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION UNITS	K	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
COMB WST CRNKCSE OIL												
	LB/GAL	0.58	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958
SEC LEAD - REVERB FURNACE												
EXIST=	LB/TON	0.68	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=		0.68	0.79000									
LEAD ACID BATTERY												
	LB/PRD UNT	0.76	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC LEAD - BLAST FURNACE												
EXIST=	LB/TON	0.68	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=		0.68	0.79000									
MINING & MILLING LEAD												
	LB/TON	0.92	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.0
PRIMARY LEAD SMELTERS												
EXIST=	LB/TON	0.99	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=		0.85	0.14000									
BRASS & BRONZE SMELTING												
EXIST=	LB/TON	0.80	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=		0.80	0.07800									
SEC LEAD POT FURN												
	LB/TON	0.68	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
FERROALLOY												
	LB/TON	0.90	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.00	240.	1.000
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.0008	20.0	0.970
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800

T_E

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
COMB WST CRNKCSE OIL	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.96
SEC LEAD - REVERB FURNACE												
EXIST.	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW.	0.68		0.79000									
SEC LEAD - BLAST FURNACE												
EXIST.	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW.	0.68		0.79000									
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
PRIMARY LEAD SMELTERS												
EXIST.	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW.	0.85		0.14000									
MINING & MILLING LEAD	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.0
BRASS & BRONZE SMELTING												
EXIST.	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW.	0.80		0.07800									
SEC LEAD POT FURN	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
FERROALLOY	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25

LEAD

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1935	1 - E /E N S
COMB WST CRNKCSE OIL	15•0	6•9	6•9	13•7	7•6	1•4	6200•	0•980
SEC LEAD - REVERB FURNACE	58•1	0•98	0•75	32•2	0•86	0•22	640•	0•165
SEC LEAD - BLAST FURNACE	11•8	0•14	0•10	6•5	0•13	0•046	80•0	0•165
* LEAD ACID BATTERY	0•25	0•15	0•091	0•091	0•25	0•000	240•	1•000
PRIMARY LEAD SMELTERS	12•7	0•053	0•029	7•7	0•048	0•019	20•0	0•600
MINING & MILLING LEAD	0•057	0•057	0•029	0•029	0•057	0•029	20•0	0•500
BRASS & BRONZE SMELTING	0•69	0•032	0•020	0•44	0•024	0•0027	20•0	0•769
SEC LEAD POT FURN	0•026	0•019	0•014	0•014	0•026	0•0008	20•0	0•970
FERROALLOY	0•28	0•012	0•0086	0•17	0•014	0•0028	10•0	0•800

T_{UE}

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	E N	EMISSION RATES UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SEC LEAD - REVERB FURNACE												
EXIST= 0.68		LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW= 0.68			0.79000									
COMB WST CRNKCSE OIL												
0.58		LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.96
PRIMARY LEAD SMELTERS												
EXIST= 0.99		LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW= 0.85			0.14000									
SEC LEAD - BLAST FURNACE												
EXIST= 0.68		LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW= 0.68			0.79000									
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	0.21000	0.01800	[illegible]	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.07800									
FERROALLOY												
0.90		LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
LEAD ACID BATTERY												
0.76		LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
MINING & MILLING LEAD												
0.92		LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.0
SEC LEAD POT FURN												
0.68		LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0000	240.	1.000
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970

$\underline{T_S}$

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
COMB WST CRNKCSE OIL	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.000	58.958
SEC LEAD - REVERB FURNACE												
EXIST=	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=	0.68		0.79000									
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC LEAD - BLAST FURNACE												
EXIST=	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=	0.68		0.79000									
MINING & MILLING LEAD	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.0
PRIMARY LEAD SMELTERS												
EXIST=	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=	0.85		0.14000									
SEC LEAD POT FURN	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.07800									
FERROALLOY	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25

LEAD

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.00	240.	1.000
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800

T_{ND}

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
COMB WST CRNKCSE OIL												
	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.00	58.96
SEC LEAD - REVERB FURNACE												
EXIST=	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=	0.68		0.79000									
SEC LEAD - BLAST FURNACE												
EXIST=	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=	0.68		0.79000									
MINING & MILLING LEAD												
	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.00
PRIMARY LEAD SMELTERS												
EXIST=	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=	0.85		0.14000									
FERROALLOY												
	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.07800									
SEC LEAD POT FURN												
	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
LEAD ACID BATTERY												
	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3

LEAD

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.0008	20.0	0.970
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.0000	240.	1.000

$$\frac{T_S - T_{ND}}{}$$

LEAD

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
COMB WST CRNKCSE OIL	0.58	LB/GAL	0.03800	0.00075	0.07500	0.007500	0.000S	0.009C	E6 GAL	629.	0.0	59.0
SEC LEAD - REVERB FURNACE												
EXIST=	0.68	LB/TON	4.06000	0.66000	175.00000	0.660000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW=	0.68		0.79000									
LEAD ACID BATTERY												
	0.76	LB/PRD UNT	0.00500	0.00000	0.00500	0.000001	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC LEAD - BLAST FURNACE												
EXIST=	0.68	LB/TON	2.74000	0.66000	171.00000	0.660000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
NEW=	0.68		0.79000									
PRIMARY LEAD SMELTERS												
EXIST=	0.99	LB/TON	0.14000	0.05600	37.00000	0.056000	0.036S	0.000S	E6 TONS	0.76	0.28	0.0
NEW=	0.85		0.14000									
SEC LEAD POT FURN												
	0.68	LB/TON	0.86000	0.02600	0.85700	0.026000	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	0.21000	0.01800	4.60000	0.018000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.07800									
MINING & MILLING LEAD												
	0.92	LB/TON	0.20000	0.10000	0.20000	0.100000	0.050S	0.000S	E6 TONS	0.62	0.31	0.000
FERROALLOY												
	0.90	LB/TON	0.01700	0.00340	0.34000	0.003400	0.028S	0.015C	E6 TONS	1.6	0.44	0.25

LEAD

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
COMB WST CRNKCSE OIL	15.0	6.9	6.9	13.7	7.6	1.4	6200.	0.980
SEC LEAD - REVERB FURNACE	58.1	0.98	0.75	32.2	0.86	0.22	640.	0.165
* LEAD ACID BATTERY	0.25	0.15	0.091	0.091	0.25	0.00	240.	1.000
SEC LEAD - BLAST FURNACE	11.8	0.14	0.10	6.5	0.13	0.046	80.0	0.165
PRIMARY LEAD SMELTERS	12.7	0.053	0.029	7.7	0.048	0.019	20.0	0.600
SEC LEAD POT FURN	0.026	0.019	0.014	0.014	0.026	0.001	20.0	0.970
BRASS & BRONZE SMELTING	0.69	0.032	0.020	0.44	0.024	0.0027	20.0	0.769
MINING & MILLING LEAD	0.057	0.057	0.029	0.029	0.057	0.029	20.0	0.500
FERROALLOY	0.28	0.012	0.0086	0.17	0.014	0.0028	10.0	0.800

RANKED DATA FOR AMMONIA

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES UNCONT E S	ALLOWABLE EMISSION RATES UNCONT E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.	0.
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1935	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.00	790.	1.000

B

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
AMMONIA REGRTR S CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
NITRATE FERTILIZER	16.7	8.3	4.6	4.6	16.4	0.33	16000.	0.980
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000

C

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA REGRTR & CO AB	0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000

$\underline{E_N}$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT EMISSION RATES E U	UNCONT EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C		INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
AMMONIA REGRTR & CO AB	0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.	0.
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.	0.
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.	0.

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000

$E_{S\ (Existing)}$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT EMISSION RATES E U	UNCONT EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
AMMONIA REGRTR & CO AB	0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.	0.

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T - T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.0	790.	1.000
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

$E_{S\ (New)}$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S

$\underline{E_U}$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.	0.

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR		
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.0	790.	1.000
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

$$\frac{1 - E_N/E_S}{}$$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.	0.
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.	0.
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.	0.
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.

AMMONIA

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
• BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980

$E_{111(d)}$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.	0.
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.	0.
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.	0.

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR		
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000

P_B

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
AMMONIA REGRTR & CO AB	0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BRL	234.	0.0	0.0
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
• BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000

P_C (Compound)

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1945	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980

$P_{C\ (Simple)}$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES F 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
DIAMMONIUM PHOS FERT	17•2	11•2	6•1	6•1	17•2	0•17	17000•	0•990
BY-PRODUCT COKE OVEN	10•0	9•1	6•6	6•6	10•0	0•077	9900•	0•992
SOD CARBNTE SOLVAY	15•6	15•6	15•6	15•6	15•6	7•8	7700•	1•000
PET REFNRY TCCU/HCCU	0•60	0•60	0•60	0•60	0•60	0•100	490•	1•000
• BEEHIVE COKE OVEN	0•73	0•79	0•79	0•79	0•79	0•000	790•	1•000

K

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BY-PRODUCT COKE OVEN 0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BEEHIVE COKE OVEN 0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
SOD CARBNTE SOLVAY 0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
DIAMMONIUM PHOS FERT 0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
PET REFNRY TCCU/HCCU 0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0
PET REFNRY FCCU 0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
AMMONIA REGRTR & CO AB 0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR 0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
NITRATE FERTILIZER 0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980

T_U

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT EMISSION RATES E U	UNCONT EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
AMMONIA REGRTR S CO AB	0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

T_A

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	ES	EN	EU	1110	PB	PC	UNITS/YR	A 1975	B 1985	C 1985
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.	0.
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
DIAMMONIUM PHOS, FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
• BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.00	790.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

T_E

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
AMMONIA REGRTR & CO AB	0.93	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.	0.
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
• BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.00	790.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

T_{UE}

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION UNITS	ALLOWABLE EMISSION RATES		UNCONT EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K		E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.	0.
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.00	790.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

T_S

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION	ALLOWABLE EMISSION RATES		UNCONT EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
AMMONIA REGRTR & CO AB											
0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR											
0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PET REFNRY FCCU											
0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
DIAMMONIUM PHOS FERT											
0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER											
0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
SOD CARBNTE SOLVAY											
0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
BY-PRODUCT COKE OVEN											
0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BEEHIVE COKE OVEN											
0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1925	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

T_{ND}

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE F N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
AMMONIA REGRTR & CO AB	0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
* BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.000	790.	1.000

$$\frac{T_S - T_{ND}}{}$$

AMMONIA

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
AMMONIA REGRTR & CO AB	0.83	LB/TON	210.00000	2.07000	210.00000	2.070000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA METHANATOR	0.83	LB/TON	203.00000	2.03000	203.00000	2.030000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PET REFNRY FCCU	0.85	LB/BARREL	0.05400	0.00110	0.05400	0.001100	0.031S	0.042C	E6 BBL	1506.	467.	771.
DIAMMONIUM PHOS FERT	0.89	LB/TON	8.00000	0.08000	8.00000	0.080000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
NITRATE FERTILIZER	0.77	LB/TON	2.06000	0.04100	2.06000	0.041000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
BY-PRODUCT COKE OVEN	0.93	LB/TON	0.26000	0.00200	0.26000	0.002000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
SOD CARBNTE SOLVAY	0.89	LB/TON	7.00000	0.00000	7.00000	3.500000	0.000S	0.000S	E6 TONS	5.0	0.0	0.0
BEEHIVE COKE OVEN	0.93	LB/TON	3.40000	0.00000	3.40000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00600	0.00000	0.00600	0.001000	0.000S	0.000S	E6 BBL	234.	0.0	0.0

AMMONIA

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
AMMONIA REGRTR & CO AB	2290.	967.	532.	532.	2290.	22.6	2260000.	0.990
AMMONIA METHANATOR	2214.	935.	514.	514.	2214.	22.1	2190000.	0.990
PET REFNRY FCCU	52.3	34.6	23.8	23.8	52.3	1.1	51100.	0.980
DIAMMONIUM PHOS FERT	17.2	11.2	6.1	6.1	17.2	0.17	17000.	0.990
NITRATE FERTILIZER	16.4	8.3	4.6	4.6	16.4	0.33	16000.	0.980
BY-PRODUCT COKE OVEN	10.0	9.1	6.6	6.6	10.0	0.077	9900.	0.992
SOD CARBNTE SOLVAY	15.6	15.6	15.6	15.6	15.6	7.8	7700.	1.000
• BEEHIVE COKE OVEN	0.79	0.79	0.79	0.79	0.79	0.0	790.	1.000
PET REFNRY TCCU/HCCU	0.60	0.60	0.60	0.60	0.60	0.100	490.	1.000

RANKED DATA FOR SULFIDES

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.00	0.000
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990

B

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES UNCONT E N	E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.000	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000

c

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.000	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000

E_N

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION	EMISSION RATES				GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	ALLOWABLE E S	E N	UNCONT E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.00
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.000	8.4	0.990
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.000	68200.	1.000
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.000	118000.	1.000
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.000	2600.	1.000

E_S (Existing)

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
REF FUEL GAS S RECOV	0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV	0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
SYN FIBERS VISC RAY	0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
CARBON BLACK FURNACE	0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
WOOD PULPING KRAFT	0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
BEEHIVE COKE OVEN	0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
BY-PRODUCT COKE OVEN	0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5.
FISH PRCSSNG	0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.0

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
REF FUEL GAS S RECOV	231•	78•5	54•9	107•	118•	0•000	118000•	1•000
CRD OIL & NAT GAS S RECOV	87•7	45•2	29•4	37•8	68•2	0•000	68200•	1•000
SYN FIBERS VISC RAY	17•9	16•0	8•8	8•8	17•9	2•7	15100•	0•849
CARBON BLACK FURNACE	32•4	25•3	13•9	13•9	32•4	0•032	32300•	0•999
WOOD PULPING KRAFT	352•	211•	146•	215•	238•	124•	113000•	0•898
* BEEHIVE COKE OVEN	2•6	2•6	2•6	2•6	2•6	0•	2600•	1•000
BY-PRODUCT COKE OVEN	363•	330•	238•	238•	363•	182•	181000•	0•500
FISH PRCSSNG	0•0085	0•0085	0•0078	0•0078	0•0085	0•	8•4	0•990

$E_{S\ (New)}$

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S

$\underline{\Sigma_U}$

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.0

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
REF FUEL GAS S RECOV	231•	78•5	54•9	107•	118•	0•	118000•	1•000
CRD OIL & NAT GAS S RECOV	87•7	45•2	29•4	37•8	68•2	0•	68200•	1•000
SYN FIBERS VISC RAY	17•9	16•0	8•8	8•8	17•9	2•7	15100•	0•849
CARBON BLACK FURNACE	32•4	25•3	13•9	13•9	32•4	0•032	32300•	0•999
WOOD PULPING KRAFT	352•	211•	146•	215•	238•	124•	113000•	0•898
• BEEHIVE COKE OVEN	2•6	2•6	2•6	2•6	2•6	0•	2600•	1•000
BY-PRODUCT COKE OVEN	363•	330•	238•	238•	363•	182•	181000•	0•500
FISH PRCSSNG	0•0085	0•0085	0•0078	0•0078	0•0085	0•	8•4	0•990

$$\underline{1 - E_N/E_S}$$

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.00aS	0.000S	E6 TONS	0.36	0.029	0.00
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.	2600.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.000	8.4	0.990
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500

$E_{111(d)}$

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
WOOD PULPING KRAFT	0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
SYN FIBERS VISC RAY	0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BY-PRODUCT COKE OVEN	0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
CARBON BLACK FURNACE	0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
FISH PRCSSNG	0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.00
CRD OIL & NAT GAS S RECOV	0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
REF FUEL GAS S RECOV	0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
BEEHIVE COKE OVEN	0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.000	8.4	0.990
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.000	68200.	1.000
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.000	118000.	1.000
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.000	2600.	1.000

P_B

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES E U	EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CARBON BLACK FURNACE	0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY	0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
CRD OIL & NAT GAS S RECOV	0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
WOOD PULPING KRAFT	0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV	0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
BY-PRODUCT COKE OVEN	0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FISH PRCSSNG	0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.0
BEEHIVE COKE OVEN	0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.000	0.0

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.0	68200.	1.000
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.	8.4	0.990
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.	2600.	1.000

P_C (Compound)

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E_S	EMISSION RATES UNCONT E_N	E_U	E_{1110}	GROWTH RATES DECIMAL/YR P_B	P_C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
REF FUEL GAS S RECOV	0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV	0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE	0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
WOOD PULPING KRAFT	0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.398

$P_{C\ (Simple)}$

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SYN FIBERS VISC RAY 0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BY-PRODUCT COKE OVEN 0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FISH PRCSSNG 0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.0
BEEHIVE COKE OVEN 0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.000	0.0

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.	8.4	0.990
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.	2600.	1.000

K

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E_S	E_N	UNCONT E_U	E_{1110}	GROWTH RATES DECIMAL/YR P_B	P_C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
WOOD PULPING KRAFT	0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
BY-PRODUCT COKE OVEN	0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BEEHIVE COKE OVEN	0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0
SYN FIBERS VISC RAY	0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
FISH PRCSSNG	0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000
CARBON BLACK FURNACE	0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
REF FUEL GAS S RECOV	0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV	0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
• BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.	2600.	1.000
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.000	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.000	68200.	1.000

T_U

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION	EMISSION RATES				GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	ALLOWABLE E S	E N	UNCONT E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.00	0.000
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990

T_A

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.00	0.000
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
• BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990

T_E

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION	EMISSION RATES				GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	ALLOWABLE E S	E N	UNCONT E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299939	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.00	0.000
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990

T_{UE}

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	 E N	UNCONT EMISSION RATES E U	 E 111D	GROWTH RATES DECIMAL/YR P B	 P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	 B 1985	 C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.00	0.000
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990

T_S

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.00	0.000
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000

T_S

SULFIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990

T_{ND}

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BY-PRODUCT COKE OVEN	0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
WOOD PULPING KRAFT	0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
SYN FIBERS VISC RAY	0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
CARBON BLACK FURNACE	0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
FISH PRCSSNG	0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.00
REF FUEL GAS S RECOV	0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
CRD OIL & NAT GAS S RECOV	0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
BEEHIVE COKE OVEN	0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.0	0.0

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.000	8.4	0.990
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.000	118000.	1.000
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.000	68200.	1.000
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.000	2600.	1.000

$\frac{T_S - T_{ND}}{}$

SULFIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BY-PRODUCT COKE OVEN											
0.93	LB/TON	9.40000	4.70000	9.40000	4.700000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
REF FUEL GAS S RECOV											
0.66	LB/TON	66.59999	0.00000	130.00000	0.000001	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
WOOD PULPING KRAFT											
0.98	LB/TON	12.70000	1.29000	18.79999	9.999990	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
CRD OIL & NAT GAS S RECOV											
0.50	LB/TON	63.00000	0.00000	81.00000	0.000001	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
CARBON BLACK FURNACE											
0.77	LB/TON	33.00000	0.03300	33.00000	0.033000	0.045S	0.025C	E6 TONS	2.0	0.90	0.56
SYN FIBERS VISC RAY											
0.90	LB/TON	55.00000	8.30000	55.00000	8.299999	0.045S	0.012S	E6 TONS	0.64	0.29	0.077
BEEHIVE COKE OVEN											
0.93	LB/TON	11.20000	0.00000	11.20000	0.000001	0.000S	0.000S	E6 TONS	0.50	0.00	0.000
FISH PRCSSNG											
0.81	LB/TON	0.05800	0.00060	0.05800	0.000600	0.008S	0.000S	E6 TONS	0.36	0.029	0.000

SULFIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BY-PRODUCT COKE OVEN	363.	330.	238.	238.	363.	182.	181000.	0.500
REF FUEL GAS S RECOV	231.	78.5	54.9	107.	118.	0.	118000.	1.000
WOOD PULPING KRAFT	352.	211.	146.	215.	238.	124.	113000.	0.898
CRD OIL & NAT GAS S RECOV	87.7	45.2	29.4	37.8	68.2	0.	68200.	1.000
CARBON BLACK FURNACE	32.4	25.3	13.9	13.9	32.4	0.032	32300.	0.999
SYN FIBERS VISC RAY	17.9	16.0	8.8	8.8	17.9	2.7	15100.	0.849
* BEEHIVE COKE OVEN	2.6	2.6	2.6	2.6	2.6	0.0	2600.	1.000
FISH PRCSSNG	0.0085	0.0085	0.0078	0.0078	0.0085	0.0	8.4	0.990

RANKED DATA FOR CHLORINE

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999

B

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
MUNCPAL INCINERATION											
0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
CHLR-AKLI DIAP CELL											
0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL											
0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN											
0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1935	1 - E /E N S
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999

C

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE ES	EMISSION RATES ALLOWABLE EN	EMISSION RATES UNCONT EU	EMISSION RATES UNCONT E1110	GROWTH RATES DECIMAL/YR PB	GROWTH RATES DECIMAL/YR PC	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
MUNCPAL INCINERATION	36•5	25•0	15•3	15•3	36•5	1•9	34600•	0•949
CHLR-AKLI DIAP CELL	666•	355•	195•	195•	666•	0•086	665000•	1•000
CHLR-AKLI MERC CELL	390•	208•	114•	114•	390•	0•033	390000•	1•000
SEC ALUM REVERB FURN	69•5	44•1	28•2	28•2	69•5	0•070	69400•	0•999

E_N

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E_S	ALLOWABLE E_N	UNCONT E_U	E_{1110}	GROWTH RATES DECIMAL/YR P_B	P_C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
PUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000

$E_{S\ (Existing)}$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI MERC CELL	390•	208•	114•	114•	390•	0•033	390000•	1•000
CHLR-AKLI DIAP CELL	666•	355•	195•	195•	666•	0•086	665000•	1•000
SEC ALUM REVERB FURN	69•5	44•1	28•2	28•2	69•5	0•070	69400•	0•999
MUNCPAL INCINERATION	36•5	25•0	15•3	15•3	36•5	1•9	34600•	0•949

$E_{S\ (New)}$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE			EMISSION RATES			GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
K	EMISSION UNITS	E S	ALLOWABLE E N	UNCONT E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S

E_U

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES E U	EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
CHLR-AKLI MERC CELL											
0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
CHLR-AKLI DIAP CELL											
0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
SEC ALUM REVERB FURN											
0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION											
0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

$$\frac{1 - E_N/E_S}{}$$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI MERC CELL	390•	208•	114•	114•	390•	0•033	390000•	1•000
CHLR-AKLI DIAP CELL	666•	355•	195•	195•	666•	0•086	665000•	1•000
SEC ALUM REVERB FURN	69•5	44•1	28•2	28•2	69•5	0•070	69400•	0•999
MUNCPAL INCINERATION	36•5	25•0	15•3	15•3	36•5	1•9	34600•	0•949

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3

$E_{111(d)}$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION	EMISSION RATES				GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	ALLOWABLE E N	UNCONT E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
MUNCPAL INCINERATION											
0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
SEC ALUM REVERB FURN											
0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CHLR-AKLI DIAP CELL											
0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL											
0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000

$\underline{P_B}$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES E U	EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
CHLR-AKLI DIAP CELL											
0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL											
0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
MUNCPAL INCINERATION											
0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
SEC ALUM REVERB FURN											
0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1935	1 - E /E N S
CHLR-AKLI DIAP CELL	666•	355•	195•	195•	666•	0•086	665000•	1•000
CHLR-AKLI MERC CELL	390•	208•	114•	114•	390•	0•033	390000•	1•000
MUNCPAL INCINERATION	36•5	25•0	15•3	15•3	36•5	1•9	34600•	0•949
SEC ALUM REVERB FURN	69•5	44•1	28•2	28•2	69•5	0•070	69400•	0•999

P_C (Compound)

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	ALLOWABLE E N	UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999

P_C (Simple)

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE ES	ALLOWABLE EN	UNCONT EU	UNCONT E 111D	GROWTH RATES DECIMAL/YR PB	PC	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

K

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	E_S	ALLOWABLE E_N	EMISSION RATES UNCONT E_U	E_{111D}	GROWTH RATES DECIMAL/YR P_B	P_C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

$\underline{T_U}$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
FUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

T_A

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

T_E

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E N	E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

T_{UE}

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION		EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	ALLOWABLE E N	UNCONT E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
CHLR-AKLI DIAP CELL											
0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL											
0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN											
0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION											
0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

$\underline{T_S}$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE ES	ALLOWABLE EN	UNCONT EU	E 111D	GROWTH RATES DECIMAL/YR PB	PC	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

T_{ND}

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
MUNCPAL INCINERATION	0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
CHLR-AKLI DIAP CELL	0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
SEC ALUM REVERB FURN	0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
CHLR-AKLI MERC CELL	0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR					TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.599
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000

$$\frac{T_S - T_{ND}}{}$$

CHLORINE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCONT E N	EMISSION RATES E U	EMISSION RATES E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
CHLR-AKLI DIAP CELL											
0.95	LB/TON	77.00000	0.01000	77.00000	0.010000	0.045S	0.065C	E6 TONS	9.7	4.4	8.5
CHLR-AKLI MERC CELL											
0.95	LB/TON	117.00000	0.01000	117.00000	0.010000	0.045S	0.065C	E6 TONS	3.7	1.7	3.3
SEC ALUM REVERB FURN											
0.82	LB/TON	76.79999	0.07700	76.79999	0.077000	0.036S	0.047C	E6 TONS	1.4	0.50	0.81
PUNCPAL INCINERATION											
0.56	LB/TON	2.75000	0.14000	2.75000	0.140000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9

CHLORINE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
CHLR-AKLI DIAP CELL	666.	355.	195.	195.	666.	0.086	665000.	1.000
CHLR-AKLI MERC CELL	390.	208.	114.	114.	390.	0.033	390000.	1.000
SEC ALUM REVERB FURN	69.5	44.1	28.2	28.2	69.5	0.070	69400.	0.999
MUNCPAL INCINERATION	36.5	25.0	15.3	15.3	36.5	1.9	34600.	0.949

RANKED DATA FOR TRACE METALS

A

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BLR >250 E6 BTU/HR												
EXIST= 0.58		LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58			0.00012									
BLR .3-10 E6 BTU/HR												
0.25		LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR .3 E6 BTU/HR												
0.30		LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BLR 10-250 E6 BTU/HR												
EXIST= 0.32		LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32			0.00046									
PET REFINRY FCCU												
0.85		LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
PET REFNRY TCCU/HCCU												
0.85		LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
IRON & STEEL BLST FURN												
0.90		LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - BOF												
EXIST= 0.90		LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90			0.00380									
IRON & STEEL - ELEC ARC												
EXIST= 0.90		LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90			0.05900									
SLUDGE INCINERATORS												
EXIST= 0.50		LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50			0.26000									
FRIT MANUFACTURING												
0.80		LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.73000									
PATHOLOGICAL INCINERATORS												
EXIST= 0.34		LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34			0.16200									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR >250 E6 BTU/HR	37•0	1•9	0•97	10•8	2•2	2•2	0•0	0•000
BLR •3-10 E6 BTU/HR	11•3	7•4	4•7	4•7	11•3	2•2	9100•	0•808
• BLR •3 E6 BTU/HR	9•6	7•2	5•7	5•7	9•6	0•0029	9500•	1•000
BLR 10-250 E6 BTU/HR	10•0	1•7	0•83	4•3	1•8	0•65	1100•	0•609
PET REFINRY FCCU	30•2	1•4	0•97	13•8	2•1	1•3	870•	0•409
PET REFNRY TCCU/HCCU	0•22	0•22	0•22	0•22	0•22	0•015	200•	1•000
IRON & STEEL BLST FURN	181•	1•4	1•00	101•	1•8	1•8	0•0	0•000
IRON & STEEL - BOF	74•6	0•20	0•15	36•3	0•26	0•22	30•0	0•000
IRON & STEEL - ELEC ARC	55•8	4•4	3•2	19•9	4•4	0•94	3400•	0•525
SLUDGE INCINERATORS	24•7	0•29	0•20	4•7	0•41	0•27	140•	0•000
FRIT MANUFACTURING	0•63	0•46	0•31	0•31	0•63	0•038	590•	0•940
BRASS & BRONZE SMELTING	6•4	0•30	0•19	4•1	0•23	0•025	200•	0•767
PATHOLOGICAL INCINERATORS	0•016	0•0043	0•0026	0•0074	0•0051	0•0023	2•7	0•494

B

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BLR >250 E6 BTU/HR												
EXIST= 0.58		LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58			0.00012									
BLR .3-10 E6 BTU/HR												
0.25		LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR 10-250 E6 BTU/HR												
EXIST= 0.32		LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32			0.00046									
BLR .3 E6 BTU/HR												
0.30		LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PET REFINRY FCCU												
0.85		LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
IRON & STEEL BLST FURN												
0.90		LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - BOF												
EXIST= 0.90		LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90			0.00380									
IRON & STEEL - ELEC ARC												
EXIST= 0.90		LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90			0.05900									
SLUDGE INCINERATORS												
EXIST= 0.50		LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50			0.26000									
FRIT MANUFACTURING												
0.80		LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.73000									
PATHOLOGICAL INCINERATORS												
EXIST= 0.34		LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34			0.16200									
PET REFNRY TCCU/HCCU												
0.85		LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.49
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000

C

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	ALLOWABLE E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	EMISSION RATES E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BLR >250 E6 BTU/HR											
EXIST= 0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58		0.00012									
BLR .3-10 E6 BTU/HR											
0.25	LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR .3 E6 BTU/HR											
0.30	LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BLR 10-250 E6 BTU/HR											
EXIST= 0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32		0.00046									
PET REFINRY FCCU											
0.85	LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
IRON & STEEL - BOF											
EXIST= 0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90		0.00380									
IRON & STEEL - ELEC ARC											
EXIST= 0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90		0.05900									
IRON & STEEL BLST FURN											
0.90	LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
SLUDGE INCINERATORS											
EXIST= 0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50		0.26000									
FRIT MANUFACTURING											
0.80	LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PATHOLOGICAL INCINERATORS											
EXIST= 0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34		0.16200									
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
BRASS & BRONZE SMELTING											
EXIST= 0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80		0.73000									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
• BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.403
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767

$\underline{E_N}$

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K / EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SLUDGE INCINERATORS										
EXIST= 0.50 LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50	0.26000									
BRASS & BRONZE SMELTING										
EXIST= 0.80 LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80	0.73000									
FRIT MANUFACTURING										
0.80 LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PATHOLOGICAL INCINERATORS										
EXIST= 0.34 LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34	0.16200									
IRON & STEEL - ELEC ARC										
EXIST= 0.90 LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90	0.05900									
IRON & STEEL BLST FURN										
0.90 LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - BOF										
EXIST= 0.90 LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90	0.00380									
PET REFINRY FCCU										
0.85 LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
BLR .3-10 E6 BTU/HR										
0.25 LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR 10-250 E6 BTU/HR										
EXIST= 0.32 LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32	0.00046									
BLR >250 E6 BTU/HR										
EXIST= 0.58 LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58	0.00012									
PET REFNRY TCCU/HCCU										
0.85 LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
BLR .3 E6 BTU/HR										
0.30 LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000

E_{S} (Existing)

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT E U	UNCONT E 111D	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.36	0.13	0.0
NEW= 0.80			0.73000									
FRIT MANUFACTURING												
0.80		LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
SLUDGE INCINERATORS												
EXIST= 0.50		LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50			0.26000									
IRON & STEEL - ELEC ARC												
EXIST= 0.90		LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90			0.05900									
PATHOLOGICAL INCINERATORS												
EXIST= 0.34		LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34			0.16200									
IRON & STEEL BLST FURN												
0.90		LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - BOF												
EXIST= 0.90		LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90			0.00380									
BLR .3-10 E6 BTU/HR												
0.25		LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
PET REFINRY FCCU												
0.85		LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
PET REFNRY TCCU/HCCU												
0.85		LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
BLR .3 E6 BTU/HR												
0.30		LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BLR 10-250 E6 BTU/HR												
EXIST= 0.32		LB/E6 BTU	0.00053	0.00018	0.00278	0.000180.	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32			0.00046									
BLR >250 E6 BTU/HR												
EXIST= 0.58		LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58			0.00012									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000

$E_{S\ (New)}$

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K	EMISSION UNITS	EMISSION RATES E S	ALLOWABLE E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BRASS & BRONZE SMELTING											
EXIST= 0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80		0.73000									
SLUDGE INCINERATORS											
EXIST= 0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50		0.26000									
PATHOLOGICAL INCINERATORS											
EXIST= 0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34		0.16200									
IRON & STEEL - ELEC ARC											
EXIST= 0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90		0.05900									
IRON & STEEL - BOF											
EXIST= 0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90		0.00380									
BLR 10-250 E6 BTU/HR											
EXIST= 0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32		0.00046									
BLR >250 E6 BTU/HR											
EXIST= 0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58		0.00012									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000

$\underline{E_U}$

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES UNCONT E S	E N	E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.73000									
SLUDGE INCINERATORS												
EXIST= 0.50		LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50			0.26000									
IRON & STEEL BLST FURN												
0.90		LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - ELEC ARC												
EXIST= 0.90		LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90			0.05900									
FRIT MANUFACTURING												
0.80		LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
IRON & STEEL - BOF												
EXIST= 0.90		LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90			0.00380									
PATHOLOGICAL INCINERATORS												
EXIST= 0.34		LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34			0.16200									
PET REFINRY FCCU												
0.85		LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
BLR 10-250 E6 BTU/HR												
EXIST= 0.32		LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32			0.00046									
BLR >250 E6 BTU/HR												
EXIST= 0.58		LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58			0.00012									
BLR .3-10 E6 BTU/HR												
0.25		LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
PET REFNRY TCCU/HCCU												
0.85		LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
BLR .3 E6 BTU/HR												
0.30		LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.73000									
SLUDGE INCINERATORS												
EXIST= 0.50		LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50			0.26000									
IRON & STEEL BLST FURN												
0.90		LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - ELEC ARC												
EXIST= 0.90		LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90			0.05900									
FRIT MANUFACTURING												
0.80		LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
IRON & STEEL - BOF												
EXIST= 0.90		LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90			0.00380									
PATHOLOGICAL INCINERATORS												
EXIST= 0.34		LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34			0.16200									
PET REFINRY FCCU												
0.85		LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
BLR 10-250 E6 BTU/HR												
EXIST= 0.32		LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32			0.00046									
BLR >250 E6 BTU/HR												
EXIST= 0.58		LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58			0.00012									
BLR .3-10 E6 BTU/HR												
0.25		LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
PET REFNRY TCCU/HCCU												
0.85		LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
BLR .3 E6 BTU/HR												
0.30		LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.

$$\frac{1 - E_N/E_S}{}$$

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K EMISSION UNITS	ALLOWABLE EMISSION RATES E S	 E N	UNCONT E U	 E 111D	GROWTH RATES DECIMAL/YR P B	 P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	 B 1985	 C 1985
PET REFNRY TCCU/HCCU										
0.85 LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
BLR .3 E6 BTU/HR										
0.30 LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
FRIT MANUFACTURING										
0.80 LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BLR .3-10 E6 BTU/HR										
0.25 LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BRASS & BRONZE SMELTING										
EXIST= 0.80 LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80	0.73000									
BLR 10-250 E6 BTU/HR										
EXIST= 0.32 LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32	0.00046									
IRON & STEEL - ELEC ARC										
EXIST= 0.90 LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90	0.05900									
PATHOLOGICAL INCINERATORS										
EXIST= 0.34 LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34	0.16200									
PET REFINRY FCCU										
0.85 LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
IRON & STEEL - BOF										
EXIST= 0.90 LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90	0.00380									
BLR >250 E6 BTU/HR										
EXIST= 0.58 LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58	0.00012									
IRON & STEEL BLST FURN										
0.90 LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
SLUDGE INCINERATORS										
EXIST= 0.50 LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50	0.26000									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000

$E_{111(d)}$

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SLUDGE INCINERATORS											
EXIST= 0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50		0.26000									
BRASS & BRONZE SMELTING											
EXIST= 0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80		0.73000									
FRIT MANUFACTURING											
0.80	LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PATHOLOGICAL INCINERATORS											
EXIST= 0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34		0.16200									
IRON & STEEL - ELEC ARC											
EXIST= 0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90		0.05900									
IRON & STEEL BLST FURN											
0.90	LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - BOF											
EXIST= 0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90		0.00380									
PET REFINRY FCCU											
0.85	LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
BLR .3-10 E6 BTU/HR											
0.25	LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR >250 E6 BTU/HR											
EXIST= 0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58		0.00012									
BLR 10-250 E6 BTU/HR											
EXIST= 0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32		0.00046									
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
BLR .3 E6 BTU/HR											
0.30	LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
IRON & STEEL -. ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
• BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000

P_B

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K / EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BLR 10-250 E6 BTU/HR										
EXIST= 0.32 LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32	0.00046									
BLR >250 E6 BTU/HR										
EXIST= 0.58 LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58	0.00012									
PATHOLOGICAL INCINERATORS										
EXIST= 0.34 LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34	0.16200									
BLR .3-10 E6 BTU/HR										
0.25 LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BRASS & BRONZE SMELTING										
EXIST= 0.80 LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80	0.73000									
SLUDGE INCINERATORS										
EXIST= 0.50 LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50	0.26000									
FRIT MANUFACTURING										
0.80 LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PET REFINRY FCCU										
0.85 LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
IRON & STEEL - BOF										
EXIST= 0.90 LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90	0.00380									
IRON & STEEL - ELEC ARC										
EXIST= 0.90 LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90	0.05900									
IRON & STEEL BLST FURN										
0.90 LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
BLR .3 E6 BTU/HR										
0.30 LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PET REFNRY TCCU/HCCU										
0.85 LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000

P_C (Compound)

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K / EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON & STEEL - ELEC ARC										
EXIST= 0.90 LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90	0.05900									
BLR >250 E6 BTU/HR										
EXIST= 0.58 LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58	0.00012									
BLR .3-10 E6 BTU/HR										
0.25 LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
PET REFINRY FCCU										
0.85 LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
BLR .3 E6 BTU/HR										
0.30 LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PATHOLOGICAL INCINERATORS										
EXIST= 0.34 LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34	0.16200									
BLR 10-250 E6 BTU/HR										
EXIST= 0.32 LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32	0.00046									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
BLR >250 E6. BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609

P_C (Simple)

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
SLUDGE INCINERATORS												
EXIST=	0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW=	0.50		0.26000									
IRON & STEEL - BOF												
EXIST=	0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.00380									
FRIT MANUFACTURING												
	0.80	LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
IRON & STEEL BLST FURN												
	0.90	LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
PET REFNRY TCCU/HCCU												
	0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.0	0.0
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.73000									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767

K

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	E N	UNCONT E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
IRON & STEEL - ELEC ARC												
EXIST= 0.90		LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90			0.05900									
IRON & STEEL - BOF												
EXIST= 0.90		LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90			0.00380									
IRON & STEEL BLST FURN												
0.90		LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
PET REFINRY FCCU												
0.85		LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
PET REFNRY TCCU/HCCU												
0.85		LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.	0.
BRASS & BRONZE SMELTING												
EXIST= 0.80		LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80			0.73000									
FRIT MANUFACTURING												
0.80		LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BLR >250 E6 BTU/HR												
EXIST= 0.58		LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58			0.00012									
SLUDGE INCINERATORS												
EXIST= 0.50		LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50			0.26000									
PATHOLOGICAL INCINERATORS												
EXIST= 0.34		LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34			0.16200									
BLR 10-250 E6 BTU/HR												
EXIST= 0.32		LB/E6 BTU	0.00053-	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32			0.00046									
BLR .3 E6 BTU/HR												
0.30		LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BLR .3-10 E6 BTU/HR												
0.25		LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.

TRACE METALS

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
• BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808

τ_U

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES E S	ALLOWABLE EMISSION RATES E N	UNCONT E U	UNCONT E 1110	GROWTH RATES DECIMAL/YR P B	GROWTH RATES DECIMAL/YR P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	INDUSTRY CAPACITY/PRODUCTION B 1985	INDUSTRY CAPACITY/PRODUCTION C 1985
IRON & STEEL BLST FURN												
	0.90	LB/TON	0.02600	0.02600	2.43000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - BOF												
EXIST=	0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.00380									
IRON & STEEL - ELEC ARC												
EXIST=	0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW=	0.90		0.05900									
BLR >250 E6 BTU/HR												
EXIST=	0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW=	0.58		0.00012									
PET REFINRY FCCU												
	0.85	LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
SLUDGE INCINERATORS												
EXIST=	0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW=	0.50		0.26000									
BLR .3-10 E6 BTU/HR												
	0.25	LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR 10-250 E6 BTU/HR												
EXIST=	0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW=	0.32		0.00046									
BLR .3 E6 BTU/HR												
	0.30	LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.73000									
FRIT MANUFACTURING												
	0.80	LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PET REFNRY TCCU/HCCU												
	0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
PATHOLOGICAL INCINERATORS												
EXIST=	0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW=	0.34		0.16200									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR						TONS/YEAR	
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	T -T S ND 1985	1 - E /E N S
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494

T_A

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K / EMISSION UNITS	E S	ALLOWABLE E N	EMISSION RATES UNCONT E U	E 111D	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BLR .3-10 E6 BTU/HR										
0.25 LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR .3 E6 BTU/HR										
0.30 LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
IRON & STEEL - ELEC ARC										
EXIST= 0.90 LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90	0.05900									
BLR >250 E6 BTU/HR										
EXIST= 0.58 LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58	0.00012									
BLR 10-250 E6 BTU/HR										
EXIST= 0.32 LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32	0.00046									
PET REFINRY FCCU										
0.85 LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
IRON & STEEL BLST FURN										
0.90 LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
FRIT MANUFACTURING										
0.80 LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BRASS & BRONZE SMELTING										
EXIST= 0.80 LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80	0.73000									
SLUDGE INCINERATORS										
EXIST= 0.50 LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50	0.26000									
PET REFNRY TCCU/HCCU										
0.85 LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
IRON & STEEL - BOF										
EXIST= 0.90 LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90	0.00380									
PATHOLOGICAL INCINERATORS										
EXIST= 0.34 LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34	0.16200									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
• BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494

T_E

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES UNCNT E N	E U	E 1110	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BLR .3 E6 BTU/HR												
	0.30	LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BLR .3-10 E6 BTU/HR												
	0.25	LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
IRON & STEEL - ELEC ARC												
EXIST=	0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW=	0.90		0.05900									
IRON & STEEL BLST FURN												
	0.90	LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
BLR >250 E6 BTU/HR												
EXIST=	0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW=	0.58		0.00012									
PET REFINRY FCCU												
	0.85	LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
BLR 10-250 E6 BTU/HR												
EXIST=	0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW=	0.32		0.00046									
FRIT MANUFACTURING												
	0.80	LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PET REFNRY TCCU/HCCU												
	0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
SLUDGE INCINERATORS												
EXIST=	0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW=	0.50		0.26000									
BRASS & BRONZE SMELTING												
EXIST=	0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW=	0.80		0.73000									
IRON & STEEL - BOF												
EXIST=	0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.00380									
PATHOLOGICAL INCINERATORS												
EXIST=	0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW=	0.34		0.16200									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494

T_{UE}

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION RATES		UNCONT EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			E S	E N	E U	E 111D	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
IRON & STEEL BLST FURN	0.90	LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON & STEEL - BOF												
EXIST.	0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW.	0.90		0.00380									
IRON & STEEL - ELEC ARC												
EXIST.	0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW.	0.90		0.05900									
PET REFINRY FCCU	0.85	LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
BLR >250 E6 BTU/HR												
EXIST.	0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW.	0.58		0.00012									
BLR .3 E6 BTU/HR	0.30	LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
SLUDGE INCINERATORS												
EXIST.	0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW.	0.50		0.26000									
BLR .3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR 10-250 E6 BTU/HR												
EXIST.	0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW.	0.32		0.00046									
BRASS & BRONZE SMELTING												
EXIST.	0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW.	0.80		0.73000									
FRIT MANUFACTURING	0.80	LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
PATHOLOGICAL INCINERATORS												
EXIST.	0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW.	0.34		0.16200									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
IRON & STEEL BLST FURN	181•	1•4	1.00	101•	1•8	1•8	0•0	0•000
IRON & STEEL - BOF	74•6	0•20	0•15	36•3	0•26	0•22	30•0	0•000
IRON & STEEL - ELEC ARC	55•8	4•4	3•2	19•9	4•4	0•94	3400•	0•525
PET REFINRY FCCU	30•2	1•4	0•97	13•8	2•1	1•3	870•	0•409
BLR >250 E6 BTU/HR	37•0	1•9	0•97	10•8	2•2	2•2	0•0	0•000
* BLR •3 E6 BTU/HR	9•6	7•2	5•7	5•7	9•6	0•0029	9500•	1•000
SLUDGE INCINERATORS	24•7	0•29	0•20	4•7	0•41	0•27	140•	0•000
BLR •3-10 E6 BTU/HR	11•3	7•4	4•7	4•7	11•3	2•2	9100•	0•808
BLR 10-250 E6 BTU/HR	10•0	1•7	0•83	4•3	1•8	0•65	1100•	0•609
BRASS & BRONZE SMELTING	6•4	0•30	0•19	4•1	0•23	0•025	200•	0•767
FRIT MANUFACTURING	0•63	0•46	0•31	0•31	0•63	0•038	590•	0•940
PET REFNRY TCCU/HCCU	0•22	0•22	0•22	0•22	0•22	0•015	200•	1•000
PATHOLOGICAL INCINERATORS	0•016	0•0043	0•0026	0•0074	0•0051	0•0023	2•7	0•494

T_S

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE K EMISSION UNITS	ALLOWABLE EMISSION RATES E S	 E N	UNCONT EMISSION RATES E U	 E 111D	GROWTH RATES DECIMAL/YR P B	 P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	 B 1985	 C 1985
BLR .3-10 E6 BTU/HR										
0.25 LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR .3 E6 BTU/HR										
0.30 LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
IRON & STEEL - ELEC ARC										
EXIST= 0.90 LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW= 0.90	0.05900									
BLR >250 E6 BTU/HR										
EXIST= 0.58 LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW= 0.58	0.00012									
PET REFINRY FCCU										
0.85 LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
IRON & STEEL BLST FURN										
0.90 LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
BLR 10-250 E6 BTU/HR										
EXIST= 0.32 LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW= 0.32	0.00046									
FRIT MANUFACTURING										
0.80 LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
SLUDGE INCINERATORS										
EXIST= 0.50 LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW= 0.50	0.26000									
IRON & STEEL - BOF										
EXIST= 0.90 LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW= 0.90	0.00380									
BRASS & BRONZE SMELTING										
EXIST= 0.80 LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW= 0.80	0.73000									
PET REFNRY TCCU/HCCU										
0.85 LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
PATHOLOGICAL INCINERATORS										
EXIST= 0.34 LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW= 0.34	0.16200									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
• BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
SLUDGE INCINERATORS	24./	0.29	0.20	4.7	0.41	0.27	140.	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494

T_{ND}

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE ES	ALLOWABLE EN	UNCONT EU	E 1110	GROWTH RATES DECIMAL/YR PB	PC	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A 1975	B 1985	C 1985
BLR .3-10 E6 BTU/HR	0.25	LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BLR >250 E6 BTU/HR EXIST.	0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW.	0.58		0.00012									
IRON & STEEL BLST FURN	0.90	LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
PET REFINRY FCCU	0.85	LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
IRON & STEEL - ELEC ARC EXIST.	0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW.	0.90		0.05900									
BLR 10-250 E6 BTU/HR EXIST.	0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW.	0.32		0.00046									
SLUDGE INCINERATORS EXIST.	0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
NEW.	0.50		0.26000									
IRON & STEEL - BOF EXIST.	0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW.	0.90		0.00380									
FRIT MANUFACTURING	0.80	LB/TON	1.37400	0.09200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
BRASS & BRONZE SMELTING EXIST.	0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW.	0.80		0.73000									
PET REFNRY TCCU/HCCU	0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
BLR .3 E6 BTU/HR	0.30	LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PATHOLOGICAL INCINERATORS EXIST.	0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW.	0.34		0.16200									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS 1000 TONS/YEAR T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T ND 1985	TONS/YEAR T -T S ND 1985	1 - E /E N S
BLR .3-10 E6 BTU/HR	11.3	7.4	4.7	4.7	11.3	2.2	9100.	0.808
BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000
IRON & STEEL BLST FURN	181.	1.4	1.00	101.	1.8	1.8	0.0	0.000
PET REFINRY FCCU	30.2	1.4	0.97	13.8	2.1	1.3	870.	0.409
IRON & STEEL - ELEC ARC	55.8	4.4	3.2	19.9	4.4	0.94	3400.	0.525
BLR 10-250 E6 BTU/HR	10.0	1.7	0.83	4.3	1.8	0.65	1100.	0.609
SLUDGE INCINERATORS	24.7	0.29	0.20	4.7	0.41	0.27	140.	0.000
IRON & STEEL - BOF	74.6	0.20	0.15	36.3	0.26	0.22	30.0	0.000
FRIT MANUFACTURING	0.63	0.46	0.31	0.31	0.63	0.038	590.	0.940
BRASS & BRONZE SMELTING	6.4	0.30	0.19	4.1	0.23	0.025	200.	0.767
PET REFNRY TCCU/HCCU	0.22	0.22	0.22	0.22	0.22	0.015	200.	1.000
* BLR .3 E6 BTU/HR	9.6	7.2	5.7	5.7	9.6	0.0029	9500.	1.000
PATHOLOGICAL INCINERATORS	0.016	0.0043	0.0026	0.0074	0.0051	0.0023	2.7	0.494

$$\frac{T_S - T_{ND}}{}$$

TRACE METALS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSION		ALLOWABLE	EMISSION RATES UNCONT		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
K	UNITS	E S	E N	E U	E 1110	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
BLR .3 E6 BTU/HR											
0.30	LB/E6 BTU	0.00195	0.00000	0.00195	0.000001	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BLR .3-10 E6 BTU/HR											
0.25	LB/E6 BTU	0.00224	0.00043	0.00224	0.000430	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
IRON & STEEL - ELEC ARC											
EXIST. 0.90	LB/TON	0.26500	0.02800	1.67000	0.028000	0.028S	0.073C	E6 TONS	36.7	10.3	37.5
NEW. 0.90		0.05900									
BLR 10-250 E6 BTU/HR											
EXIST. 0.32	LB/E6 BTU	0.00053	0.00018	0.00278	0.000180	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW. 0.32		0.00046									
PET REFINRY FCCU											
0.85	LB/BARREL	0.00220	0.00130	0.03120	0.001300	0.031S	0.042C	E6 BBL	1506.	467.	771.
FRIT MANUFACTURING											
0.80	LB/TON	1.37400	0.08200	1.37000	0.082000	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PET REFNRY TCCU/HCCU											
0.85	LB/BARREL	0.00220	0.00000	0.00220	0.000150	0.000S	0.000S	E6 BBL	234.	0.00	0.00
BRASS & BRONZE SMELTING											
EXIST. 0.80	LB/TON	1.98000	0.17000	42.70000	0.170000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW. 0.80		0.73000									
SLUDGE INCINERATORS											
EXIST. 0.50	LB/TON	1.00000	0.26000	24.00000	0.260000	0.033S	0.250S	E6 TONS	1.2	0.35	2.9
NEW. 0.50		0.26000									
IRON & STEEL - BOF											
EXIST. 0.90	LB/TON	0.00510	0.00380	1.26000	0.003800	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW. 0.90		0.00380									
PATHOLOGICAL INCINERATORS											
EXIST. 0.34	LB/TON	0.19600	0.08200	0.54500	0.082000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NEW. 0.34		0.16200									
IRON & STEEL BLST FURN											
0.90	LB/TON	0.02600	0.02600	2.63000	0.026000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
BLR >250 E6 BTU/HR											
EXIST. 0.58	LB/E6 BTU	0.00024	0.00012	0.00267	0.000240	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW. 0.58		0.00012									

TRACE METALS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

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BLR >250 E6 BTU/HR	37.0	1.9	0.97	10.8	2.2	2.2	0.0	0.000